

Attachment E: Voltage Stability (PV) Analysis

E-1 Assumptions

CE interface comprises the following transmission lines: 912L, 174L, 7L117, 7L92, 935L, 923L, 962L/9L62, and 986L/9L86.

Source system includes future generation at the following substations: Bowmanton, Jenner, Cypress, Oakland, Hansman, Tinchebray, Lanfine, Nilrem, Drury, and Edgerton

Sink system includes generators in Areas 40 and 25.

Category B contingencies include:

- all 240kV transmission lines in the Study Area;
- WATL
- EATL

Category C5 contingencies are outlined in Table E-1-1.

Table E-1-1 Select Category C5 contingencies

C5 Contingency
1035L (Bowmanton 244S - Newell 2075S) and 1088L (Cassils 324S - Newell 2075S)
1034L (Bowmanton 244S - Cassils 324S) and 1088L (Cassils 324S - Newell 2075S)
945L (Cypress 562S - Jenner 275S) and 1011L (Cypress 562S - Empress 163S)
933L (Anderson 801S - Ware Junction 132S) and 934L (Anderson 801S - Ware Junction 132S)
945L (Cypress 562S - Jenner 275S) and 1002L (Jenner 275S - Empress 163S)
1011L (Cypress 562S - Empress 163S) and 1002L (Jenner 275S - Empress 163S)
951L (Jenner 275S - Ware Junction 132S) and 944L (Jenner 275S - Ware Junction 132S)
931L (West Brooks 28S - Ware Junction 132S) and 1075L (West Brooks 28S - Ware Junction 132S)
1035L (Bowmanton 244S - Newell 2075S) and 1034L (Bowmanton 244S - Cassils 324S)
1051L (West Brooks 28S - Cassils 324S) and 1052L (West Brooks 28S - Cassils 324S)
953L (Nilrem 574S - Cordel 755S) and 1047L (Nilrem 574S - Hansman Lake 650S)
923L (Milo 356S - Cassils 324S) and 1087L (Cassils 324S - Newell 2075S)
935L (Cassils 324S - Milo 356S) and 1087L (Cassils 324S - Newell 2075S)
923L (Milo 356S - Newell 2075S) and 935L (Cassils 324S - Milo 356S)
924L (Langdon 102S - Milo 356S) and 927L (Langdon 102S - Milo 356S)
962L/9L62 (Tinchebray 972S - Gaetz 87S) and 986L/9L86 (Tinchebray 972S - Gaetz 87S)

Bus monitored:

- 240kV buses 87, 147, 152, 155, 225, 260, 262, 430, 477, 531, 649, 662, 669, 677, 798, 918, 943, 990, 1012, 1390, 1403, 1413, 1419, 1422, 1427, 1431, 1435, 1438, 1440, 1447, 1484, 1499, 1502, 549003, 990362, 991047;
- 138kV buses 68, 1367, 1383, 1377, 1455, 1393, 1433, 1448

E-2 PV Plots Summary

Section	Topology	Contingencies
Attachment E-1	Pre-Development	Category B
Attachment E-2	CRPC+CETO 1 CKT	Category B
Attachment E-3	CRPC+CETO 2 CKT	Category B
Attachment E-4	Pre-Development	Category C5
Attachment E-5	CRPC+CETO 1 CKT	Category C5
Attachment E-6	CRPC+CETO 2 CKT	Category C5
Note: The plots only show the worst 5 buses (highest delta V in pu) under the 5 worst contingencies (lowest PV margin).		

Attachment E-1 - PV Results

CE, Option: Pre Project, Cat. B

Figure: E-1-1

Case: H5, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 18.1%

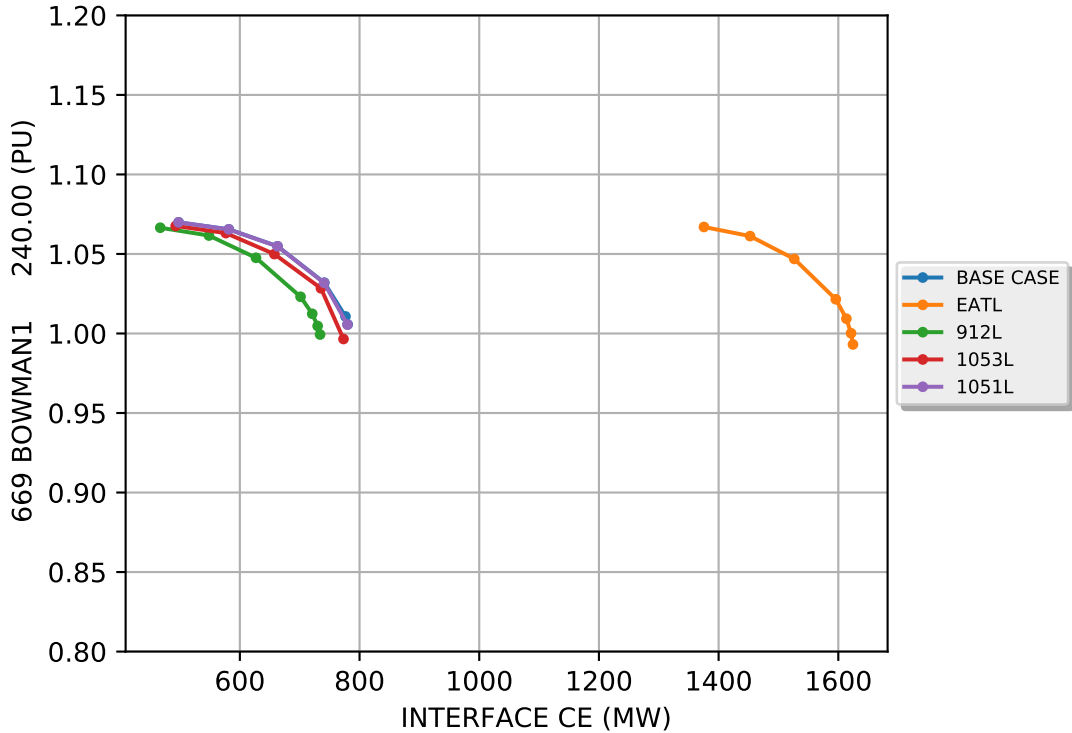


Figure: E-1-2

Case: H5, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 18.1%

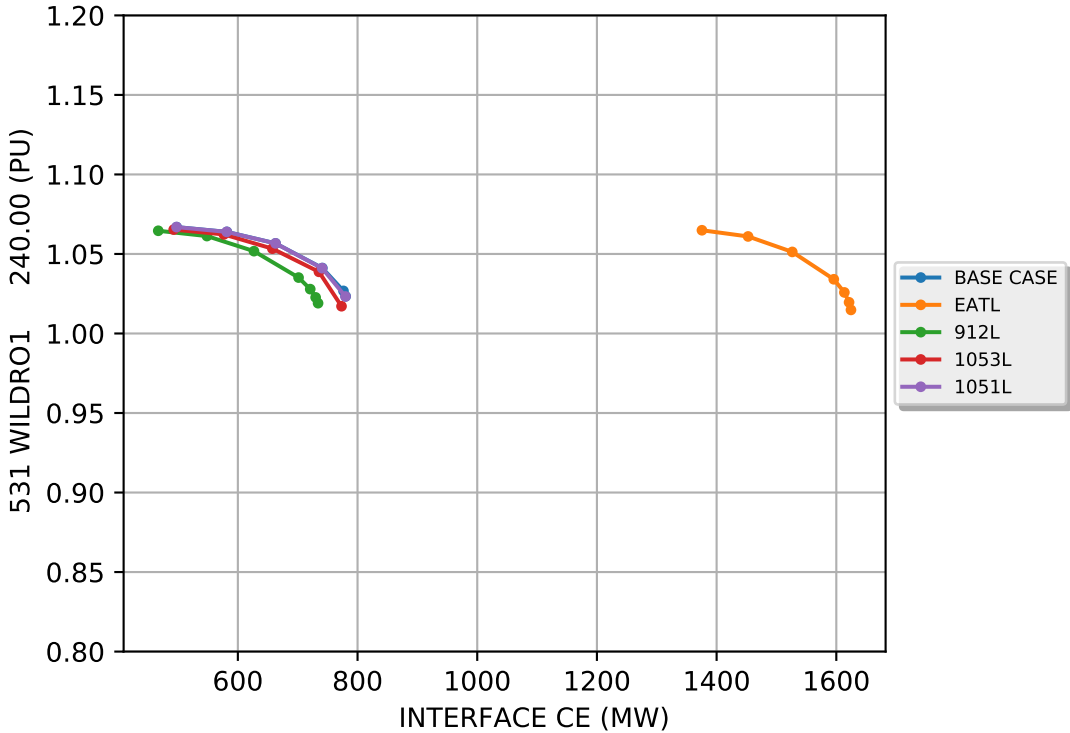


Figure: E-1-3

Case: H5, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 18.1%

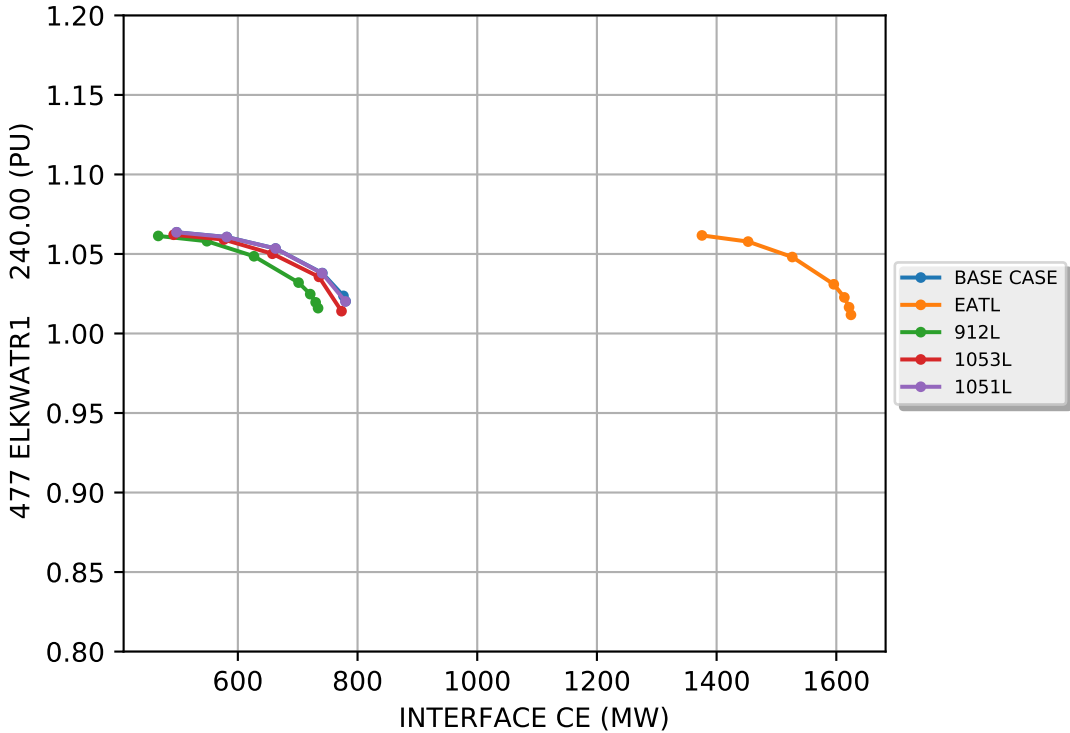


Figure: E-1-4

Case: H5, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 18.1%

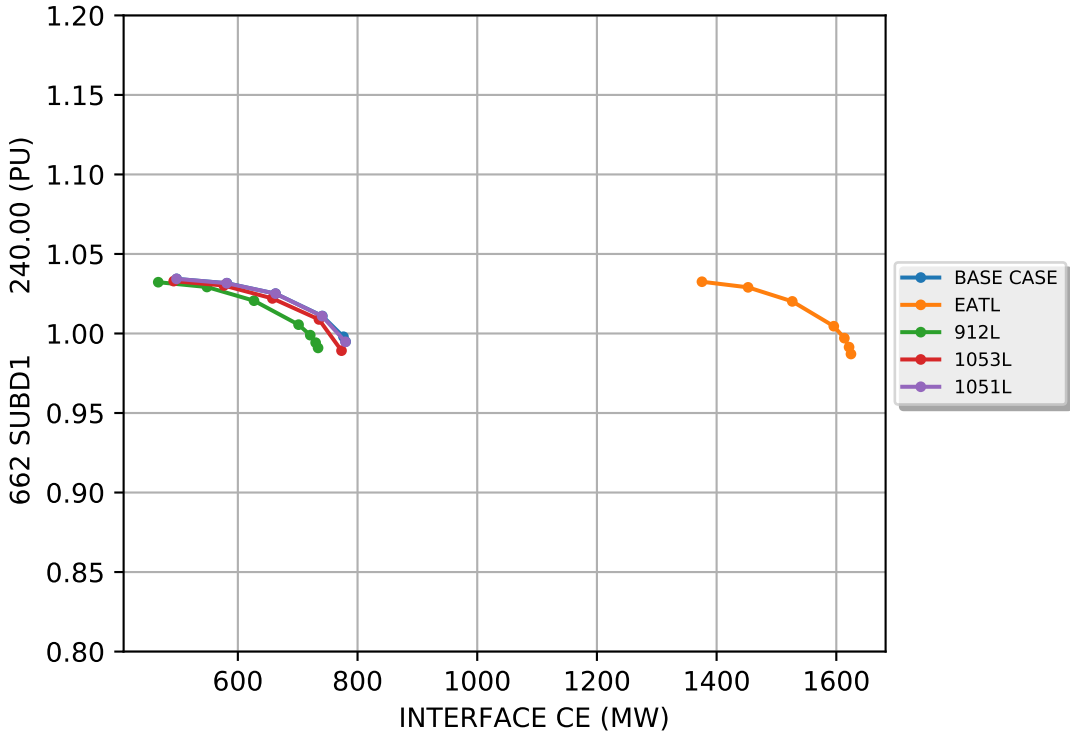


Figure: E-1-5

Case: H5, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 18.1%

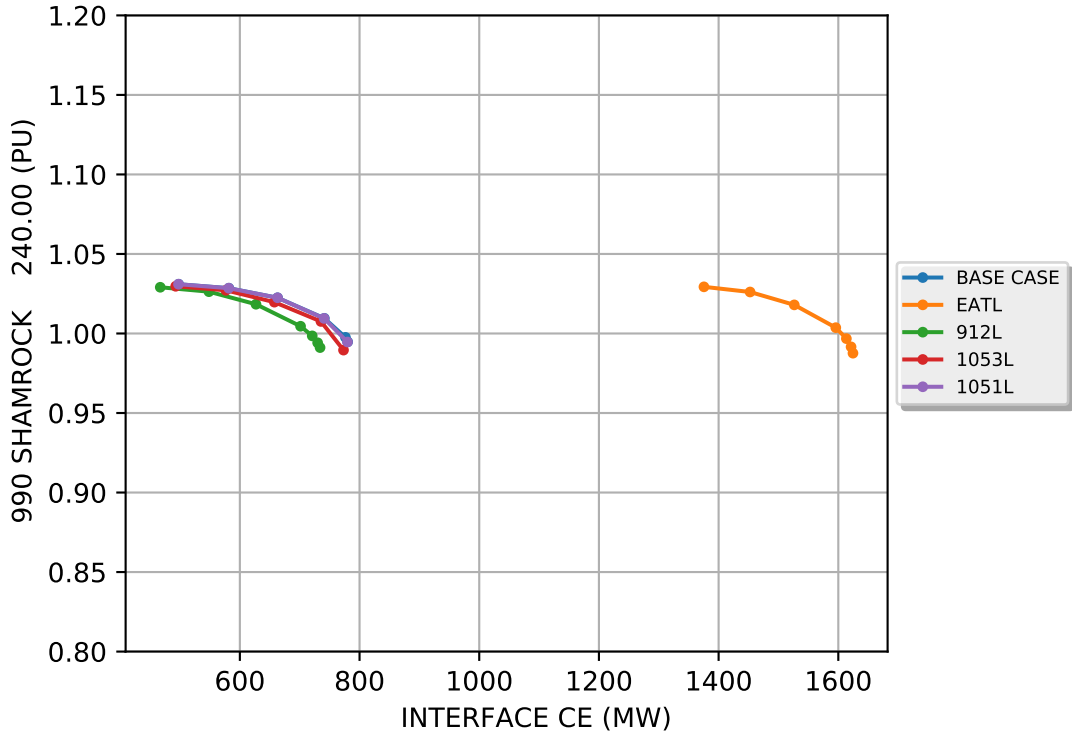


Figure: E-1-6

Case: H7, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 18.9%

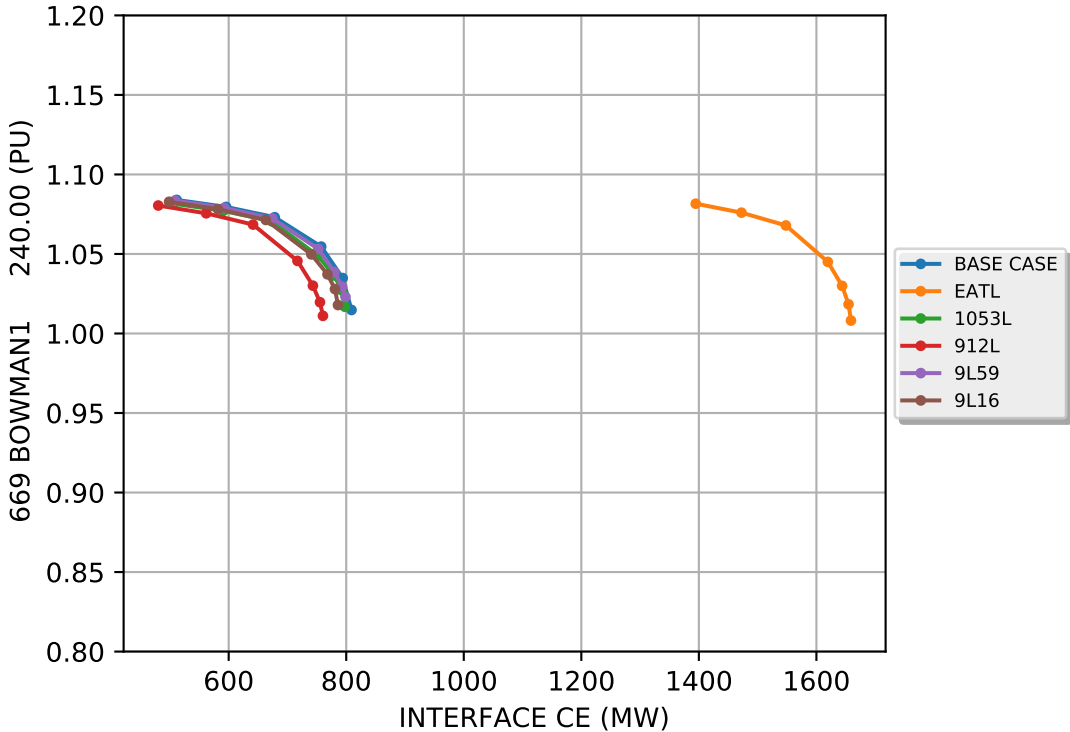


Figure: E-1-7

Case: H7, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 18.9%

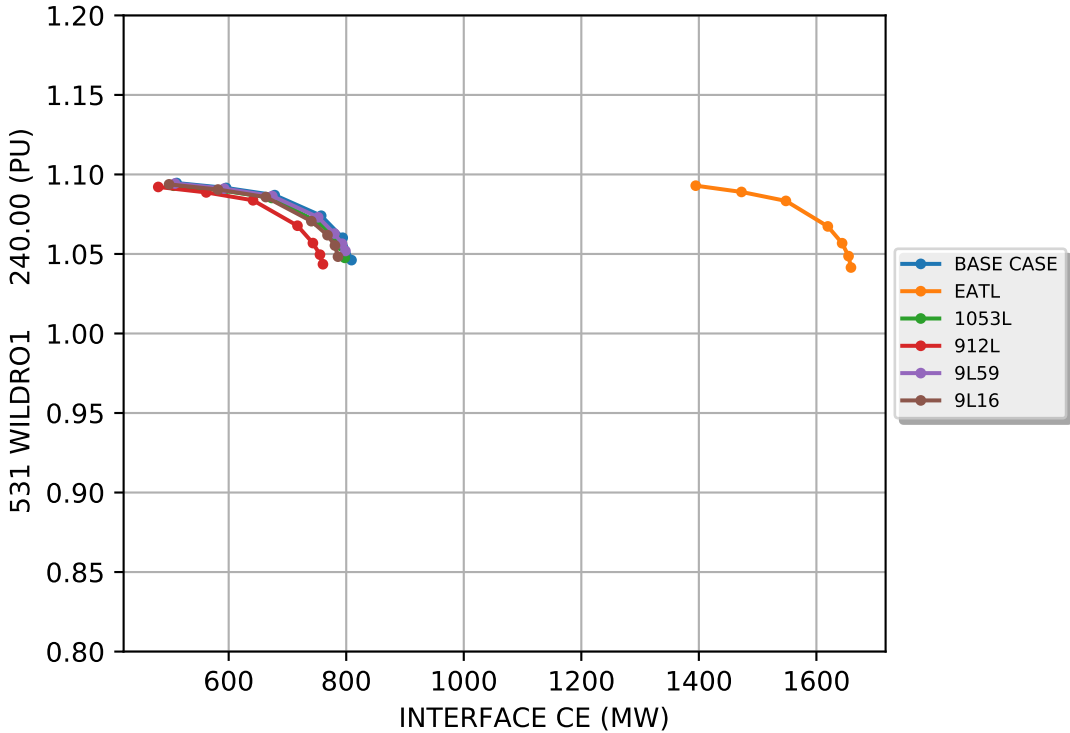


Figure: E-1-8

Case: H7, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 18.9%

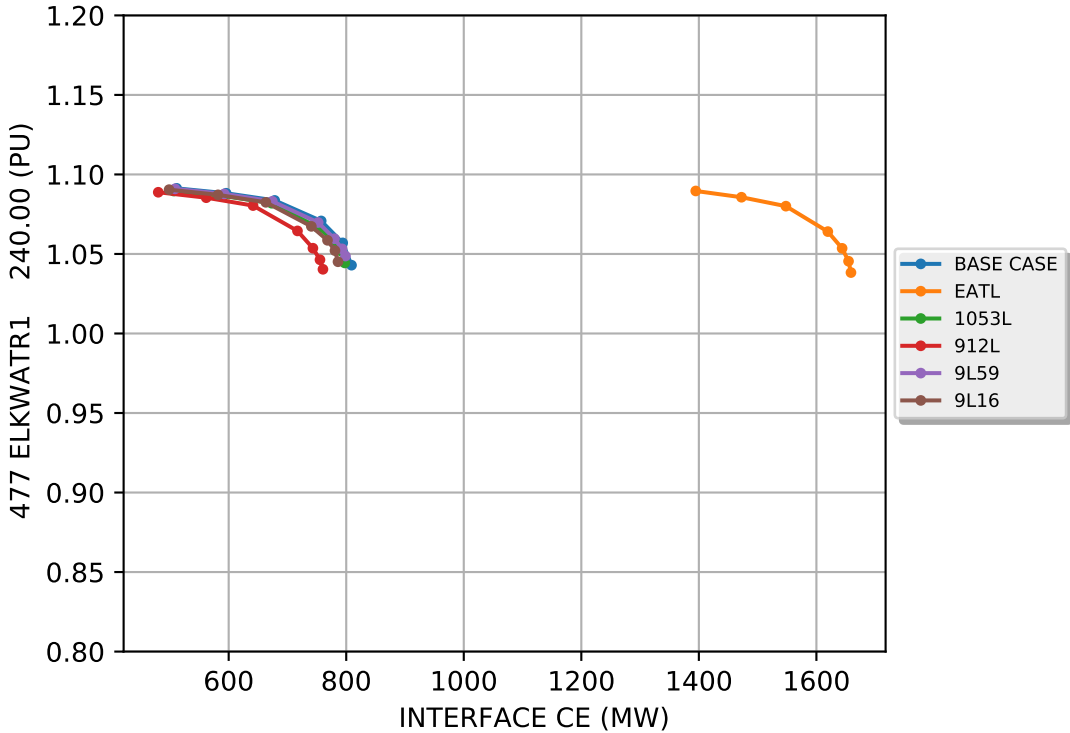


Figure: E-1-9

Case: H7, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 18.9%

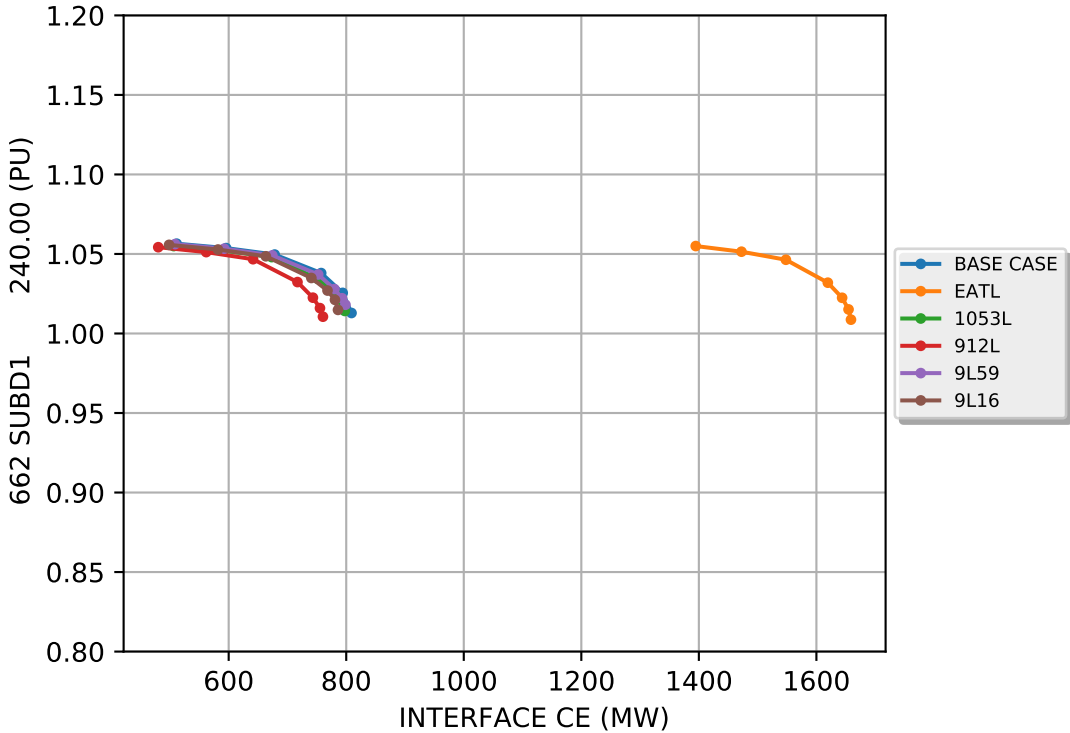


Figure: E-1-10

Case: H7, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 18.9%

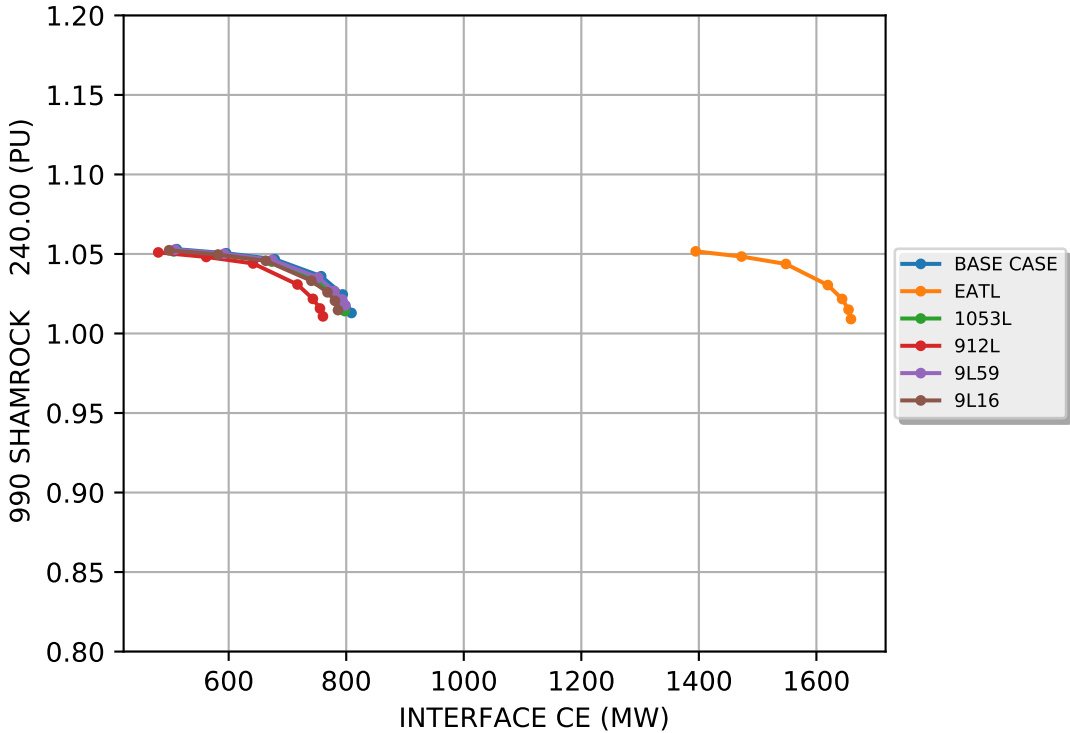


Figure: E-1-11

Case: H4, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 89.3%

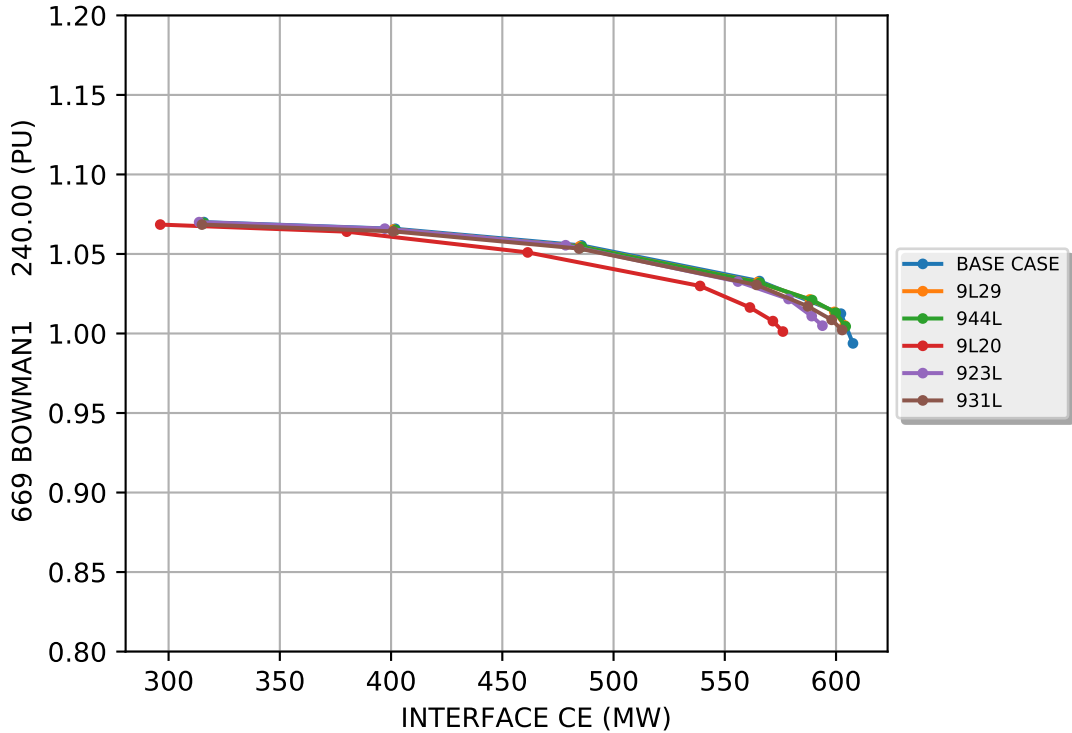


Figure: E-1-12

Case: H4, Option: PRE

Min Voltage: 1.02 PU, Min Margin: 89.3%

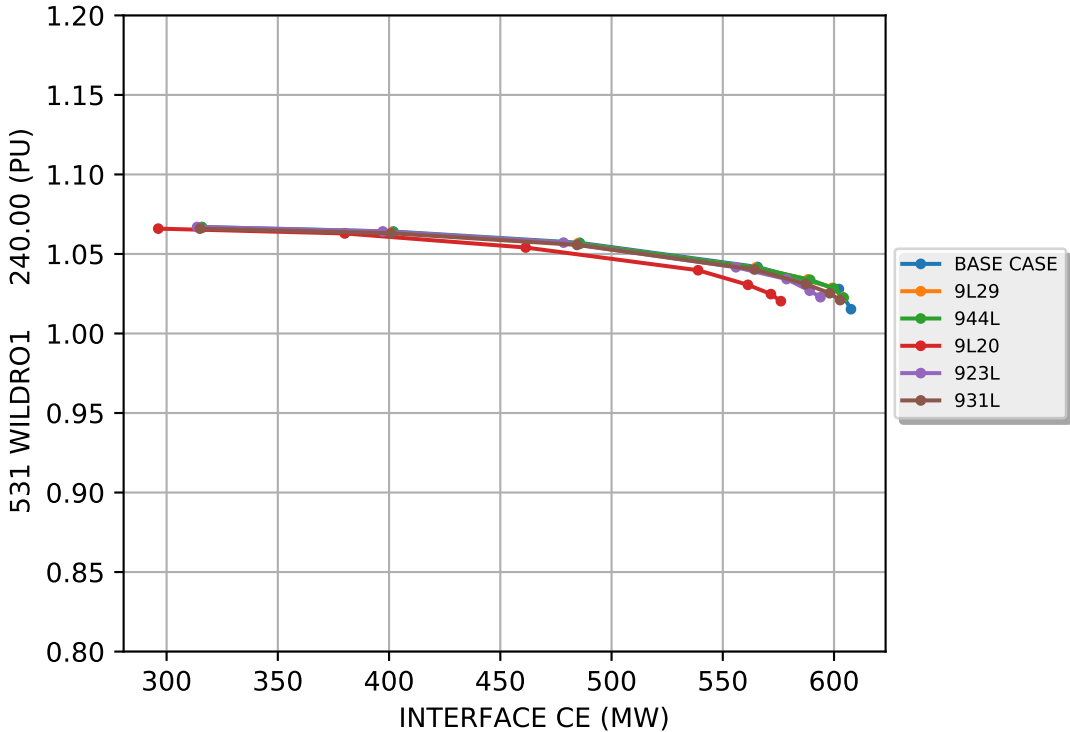


Figure: E-1-13

Case: H4, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 89.3%

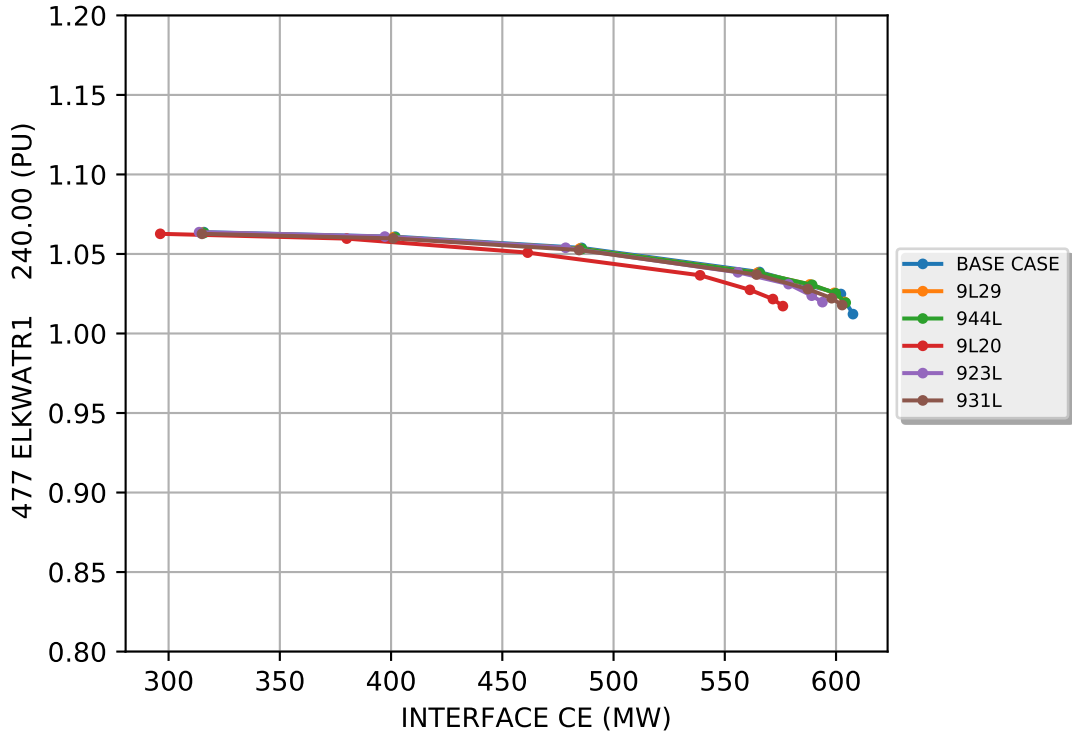


Figure: E-1-14

Case: H4, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 89.3%

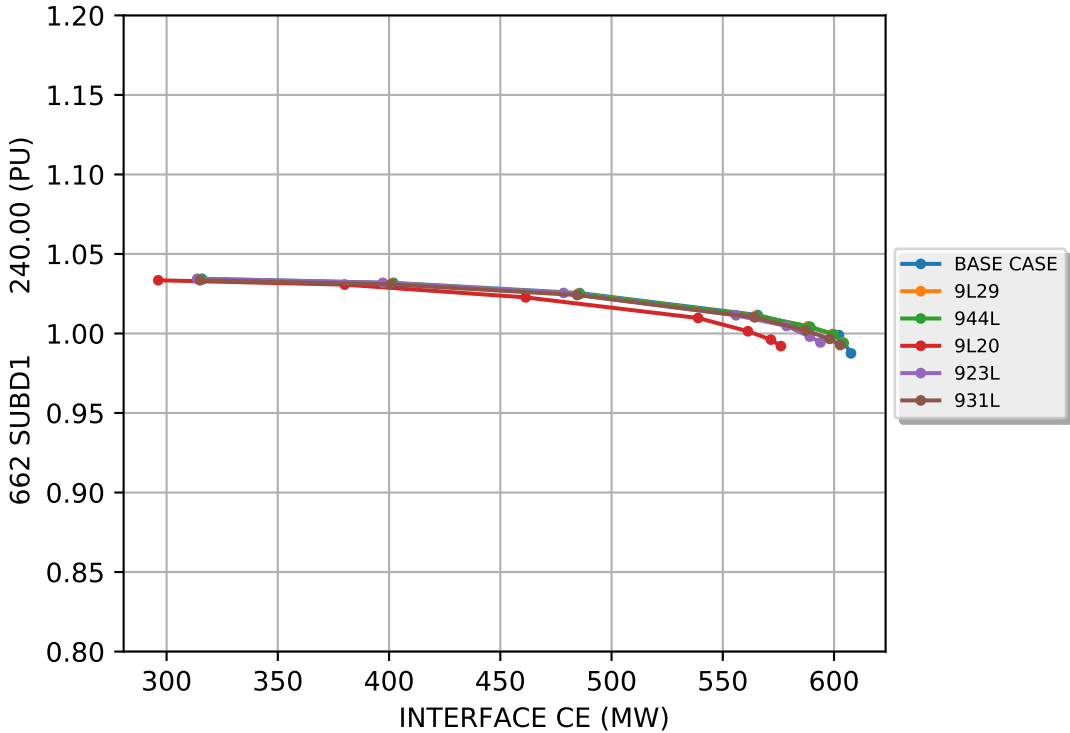


Figure: E-1-15

Case: H4, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 89.3%

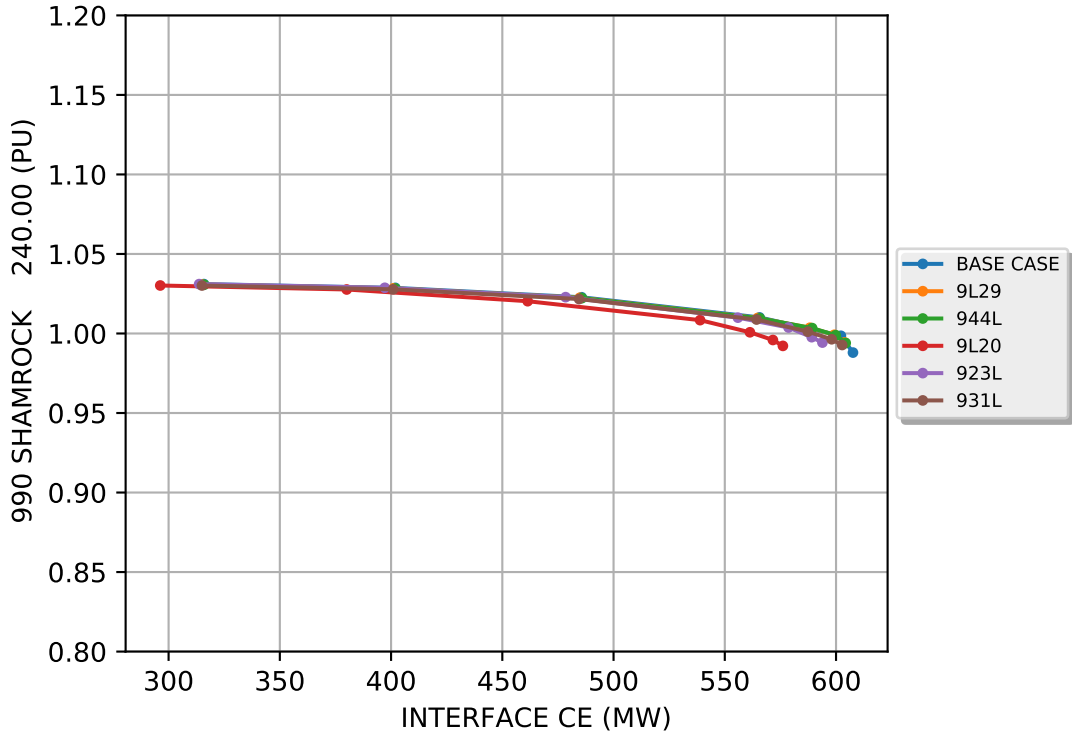


Figure: E-1-16

Case: H8, Option: PRE

Min Voltage: 1.00 PU, Min Margin: 18.7%

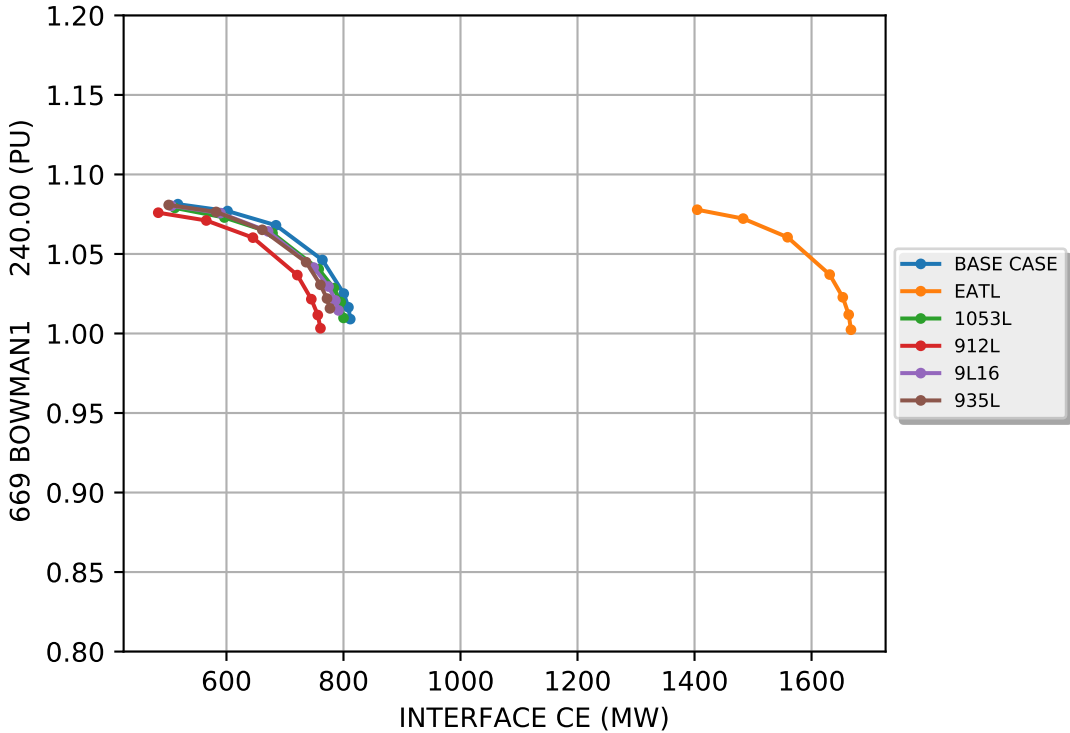


Figure: E-1-17

Case: H8, Option: PRE

Min Voltage: 1.03 PU, Min Margin: 18.7%

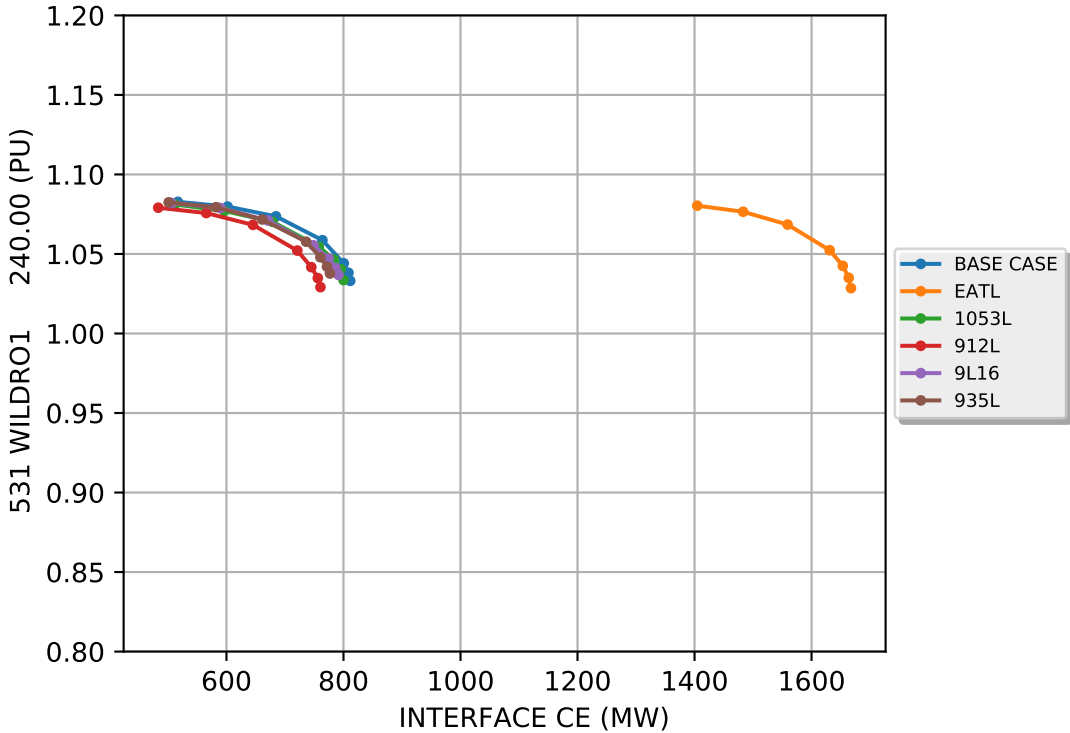


Figure: E-1-18

Case: H8, Option: PRE

Min Voltage: 1.03 PU, Min Margin: 18.7%

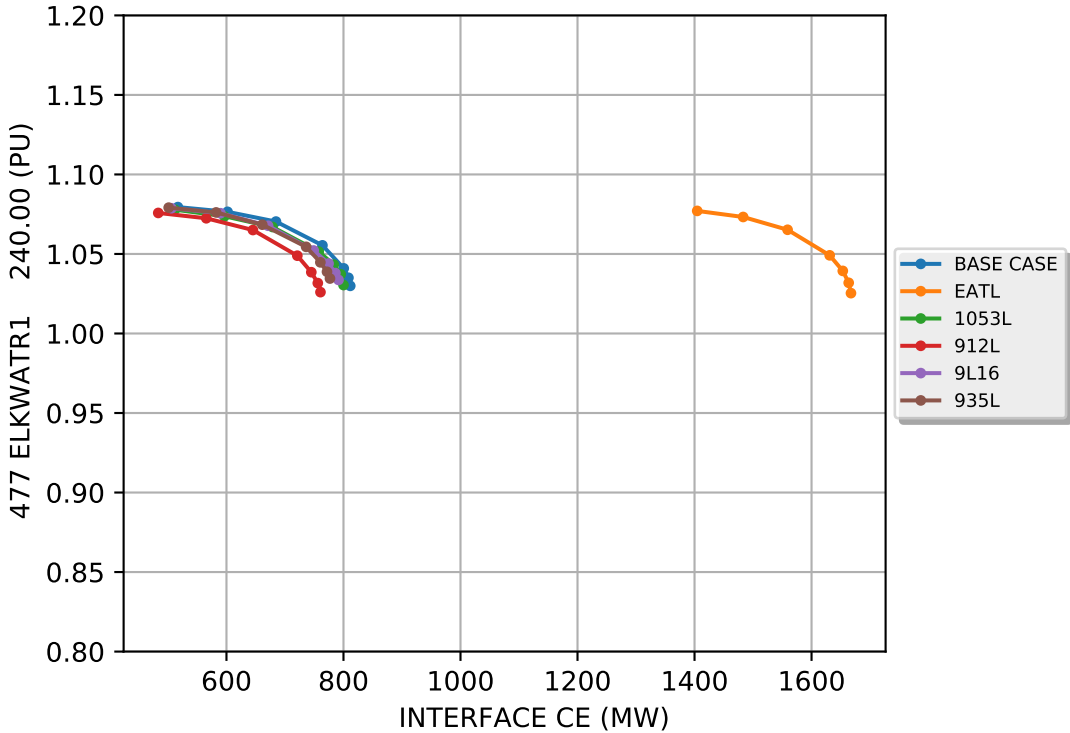


Figure: E-1-19

Case: H8, Option: PRE

Min Voltage: 1.00 PU, Min Margin: 18.7%

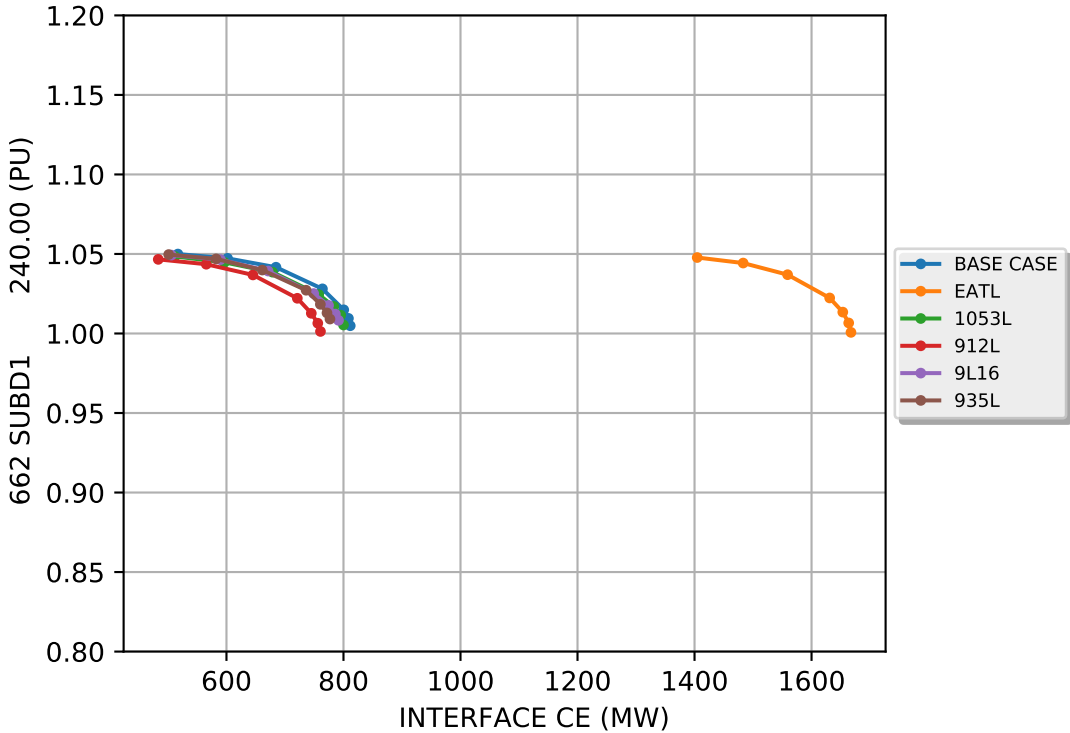


Figure: E-1-20

Case: H8, Option: PRE

Min Voltage: 1.00 PU, Min Margin: 18.7%

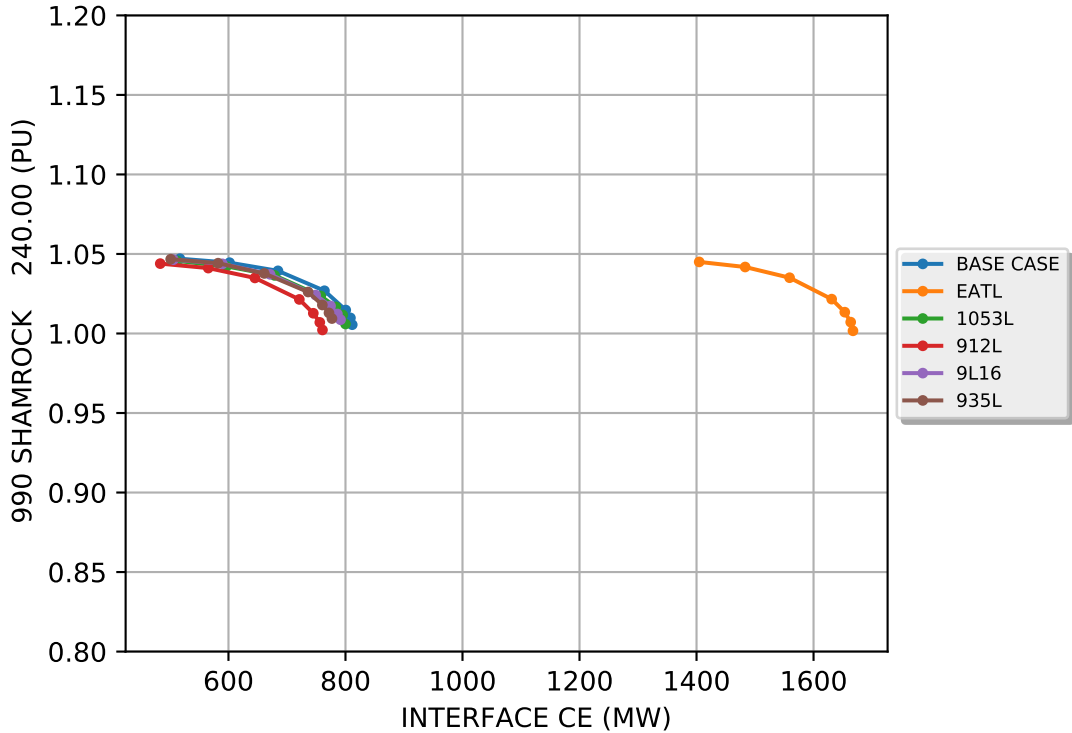


Figure: E-1-21

Case: H1, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 22.1%

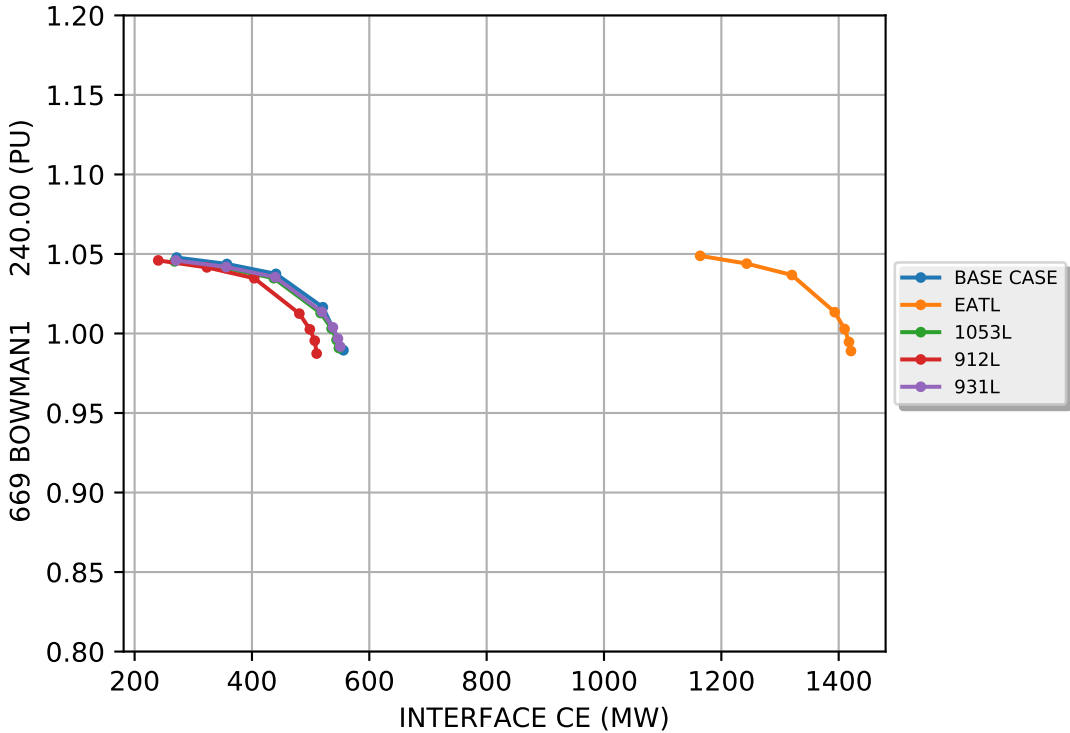


Figure: E-1-22

Case: H1, Option: PRE

Min Voltage: 1.00 PU, Min Margin: 22.1%

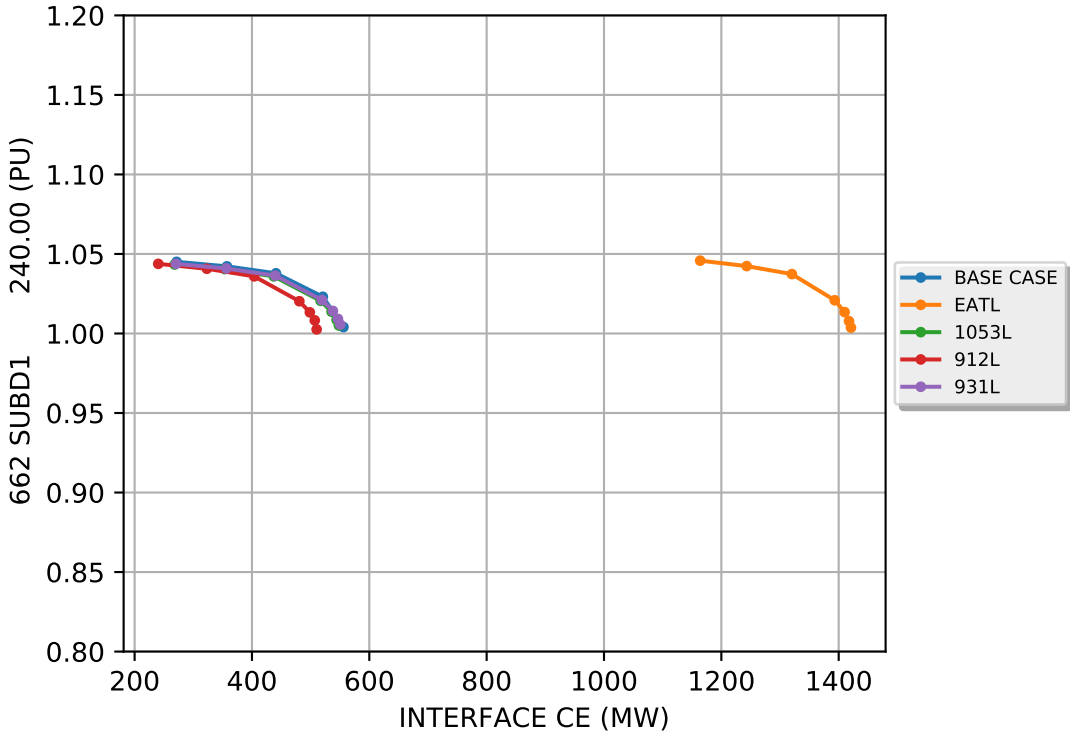


Figure: E-1-23

Case: H1, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 22.1%

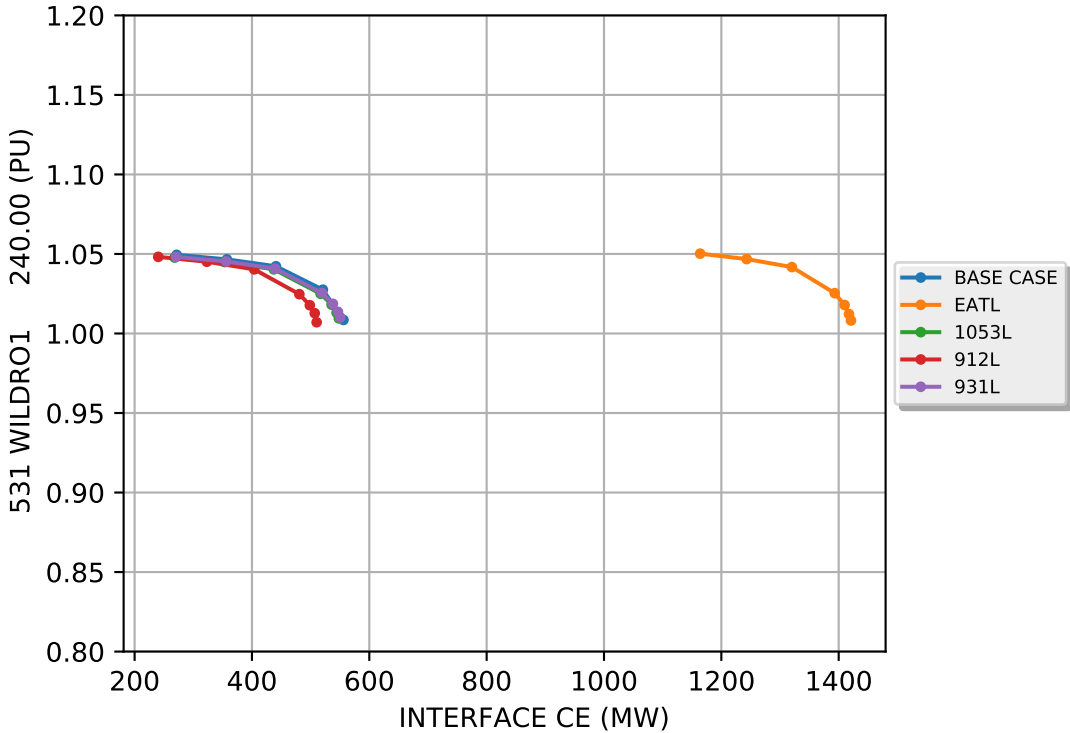


Figure: E-1-24

Case: H1, Option: PRE

Min Voltage: 1.00 PU, Min Margin: 22.1%

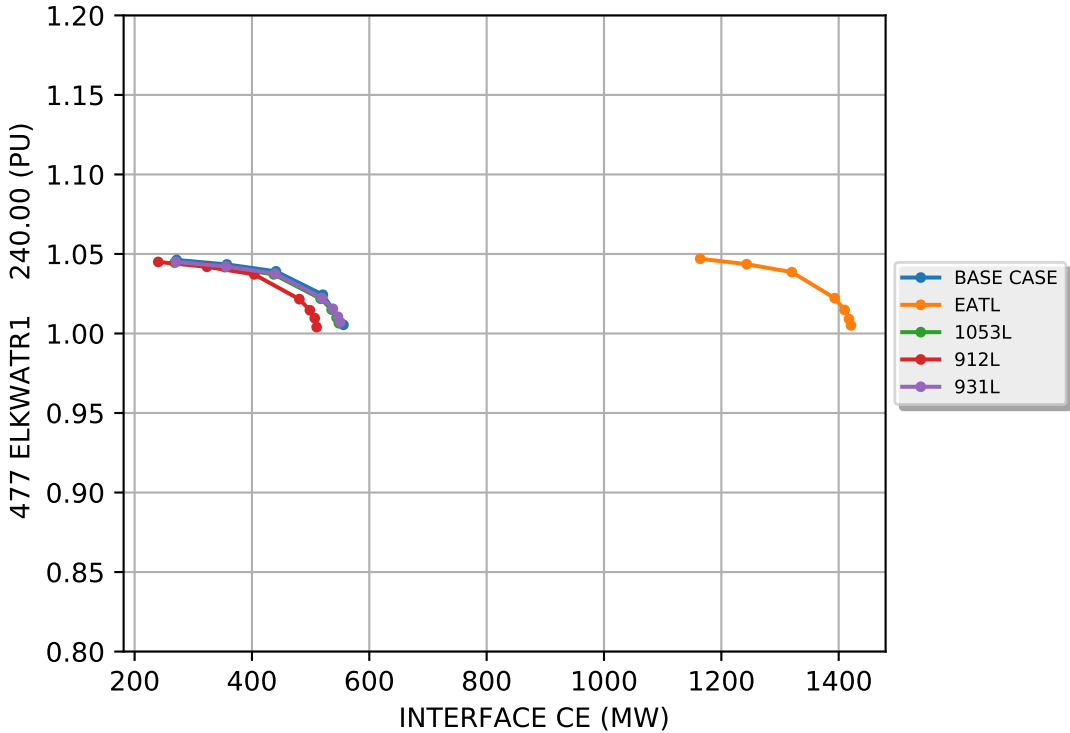


Figure: E-1-25

Case: H1, Option: PRE

Min Voltage: 1.00 PU, Min Margin: 22.1%

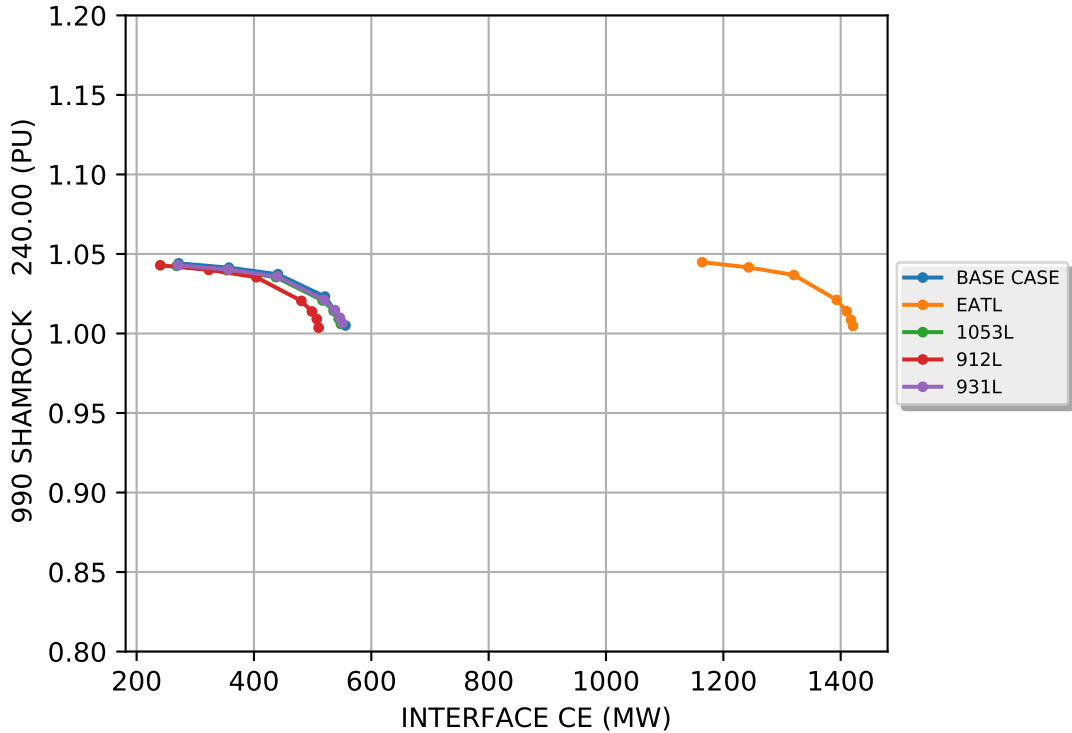


Figure: E-1-26

Case: H2, Option: PRE

Min Voltage: 1.00 PU, Min Margin: 19.6%

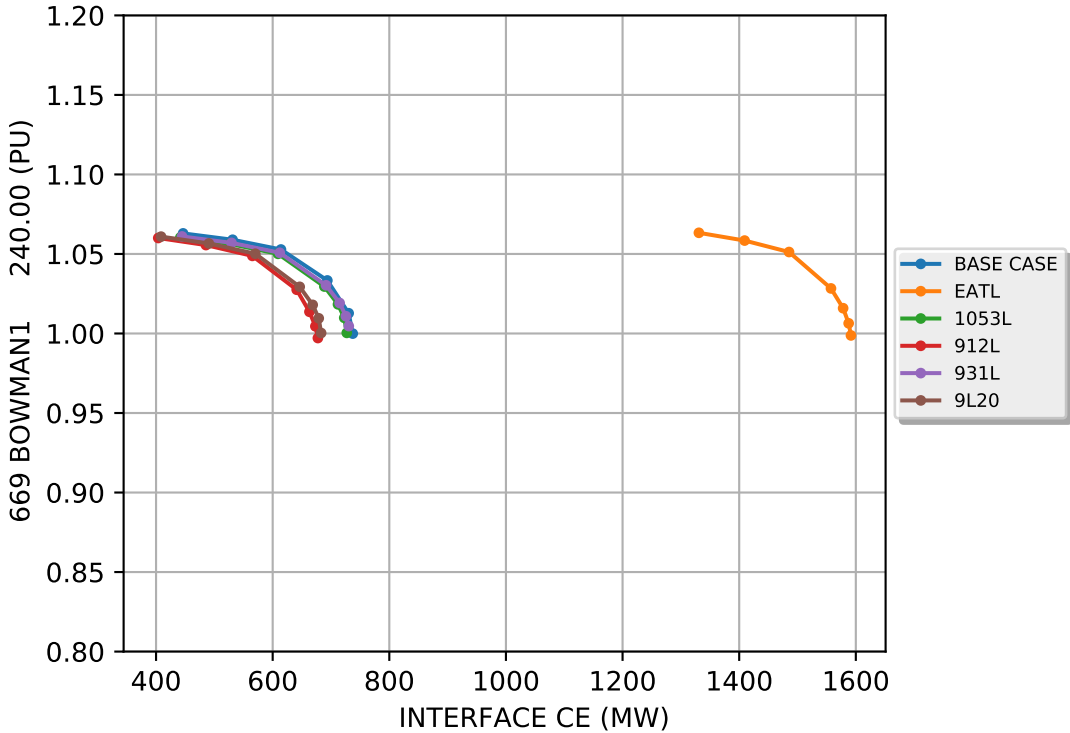


Figure: E-1-27

Case: H2, Option: PRE

Min Voltage: 1.03 PU, Min Margin: 19.6%

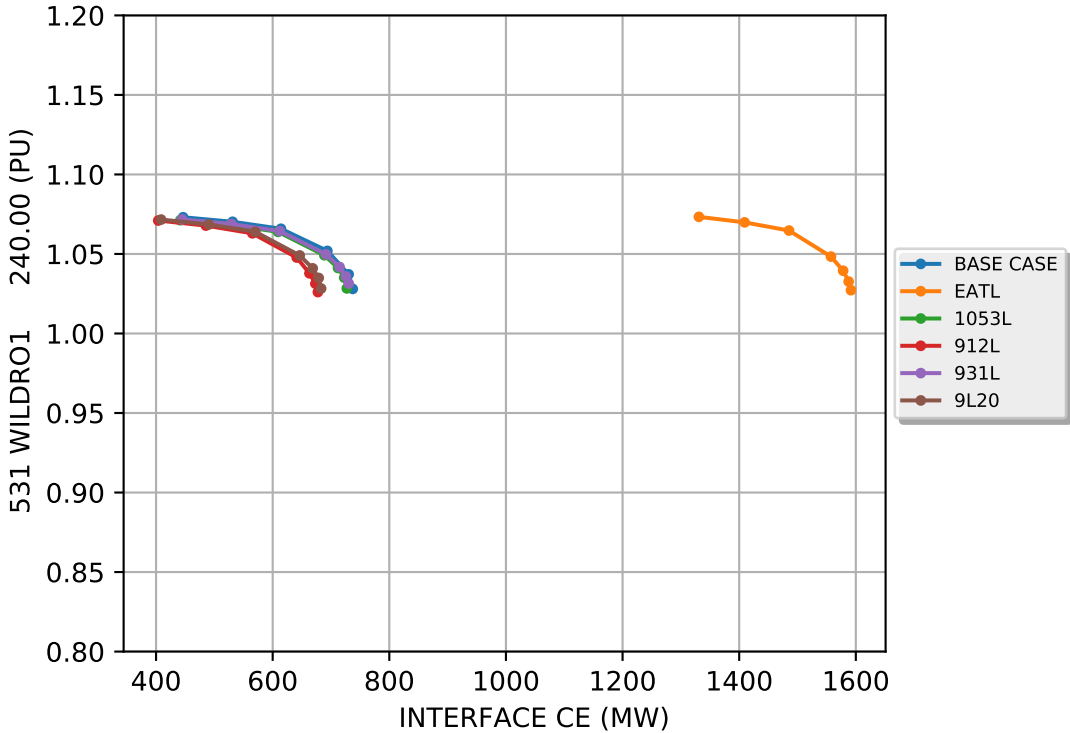


Figure: E-1-28

Case: H2, Option: PRE

Min Voltage: 1.02 PU, Min Margin: 19.6%

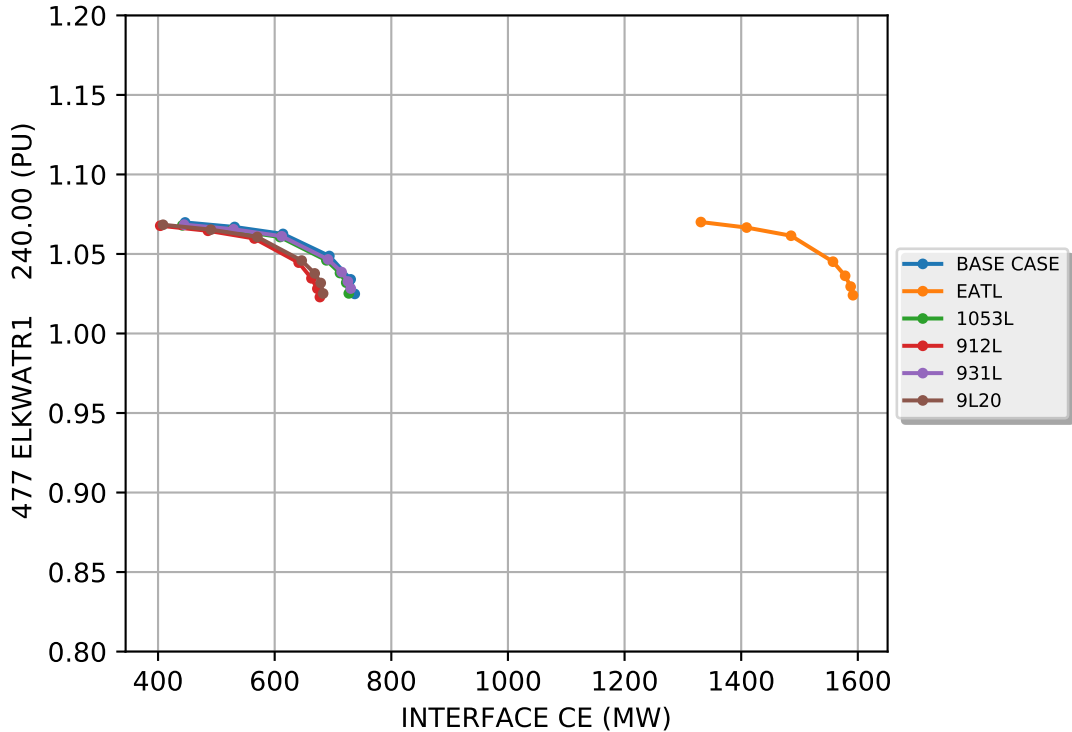


Figure: E-1-29

Case: H2, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 19.6%

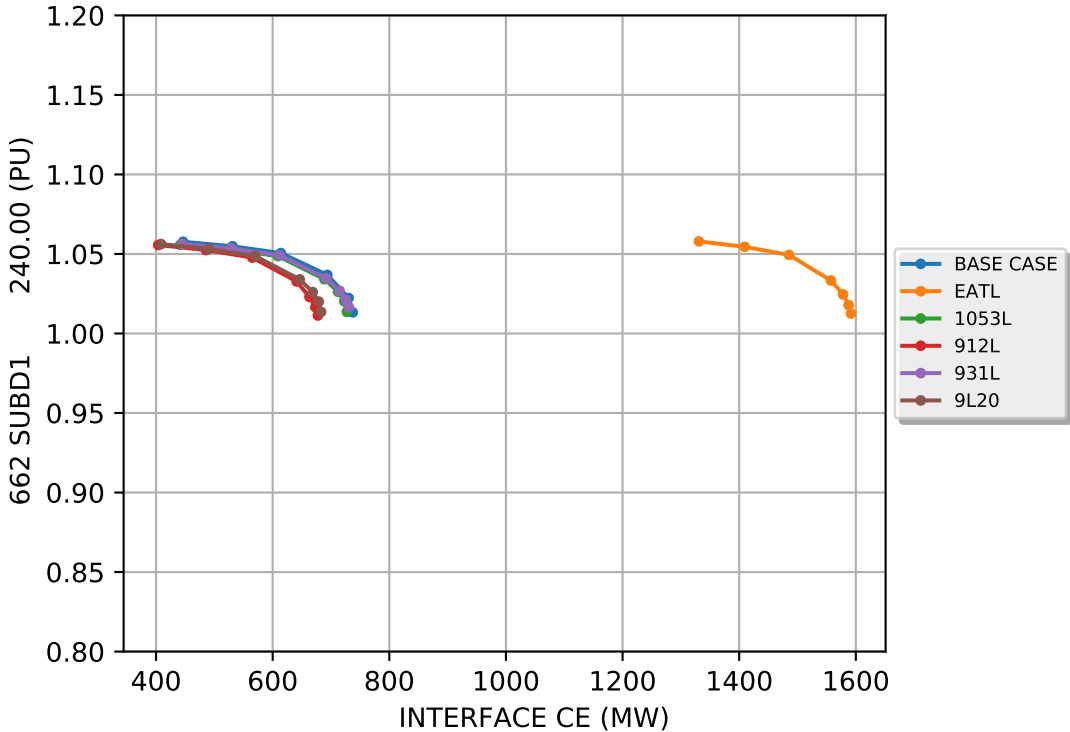


Figure: E-1-30

Case: H2, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 19.6%

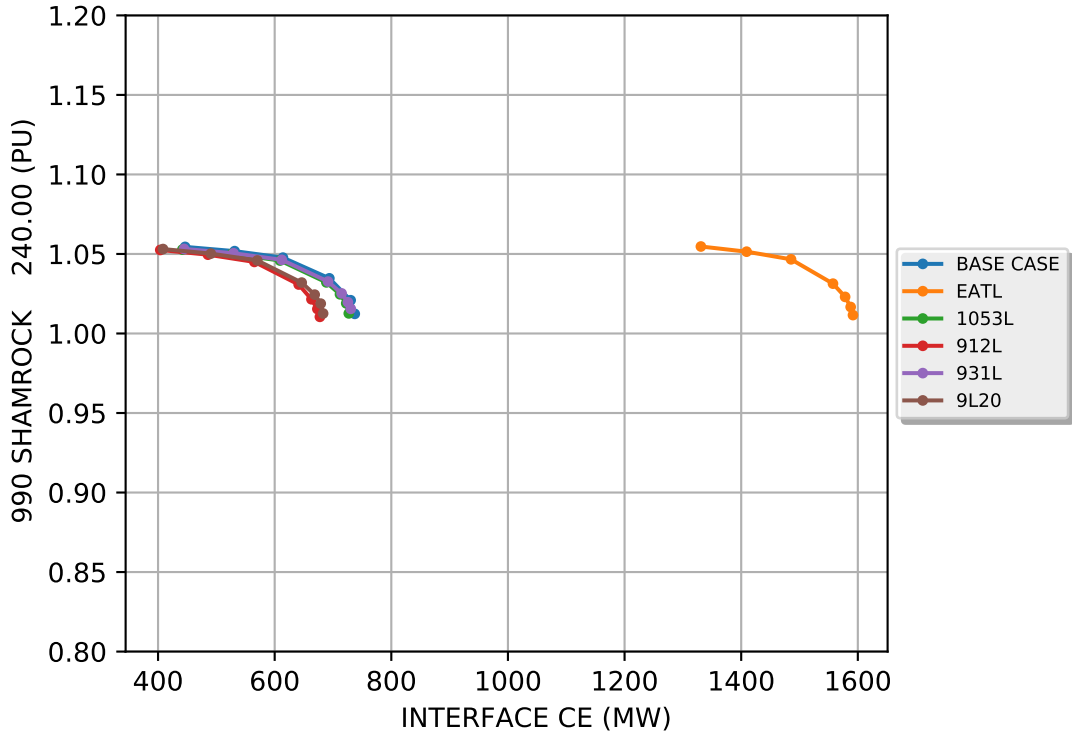


Figure: E-1-31

Case: H3, Option: PRE

Min Voltage: 1.00 PU, Min Margin: 24.8%

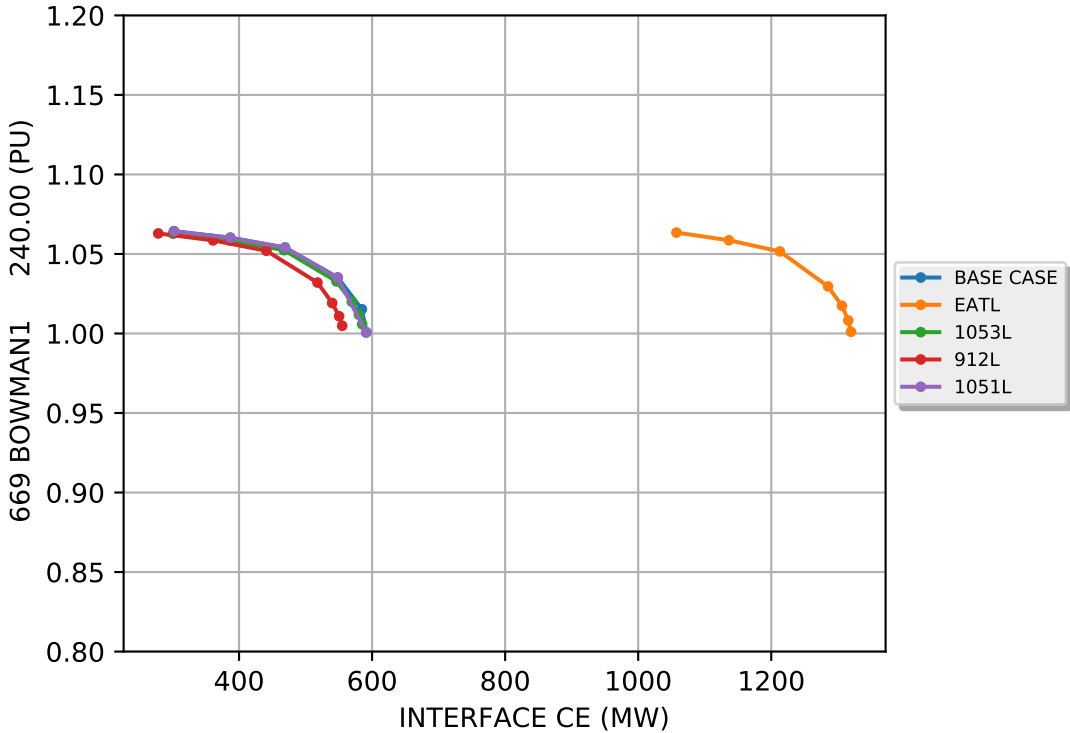


Figure: E-1-32

Case: H3, Option: PRE

Min Voltage: 1.02 PU, Min Margin: 24.8%

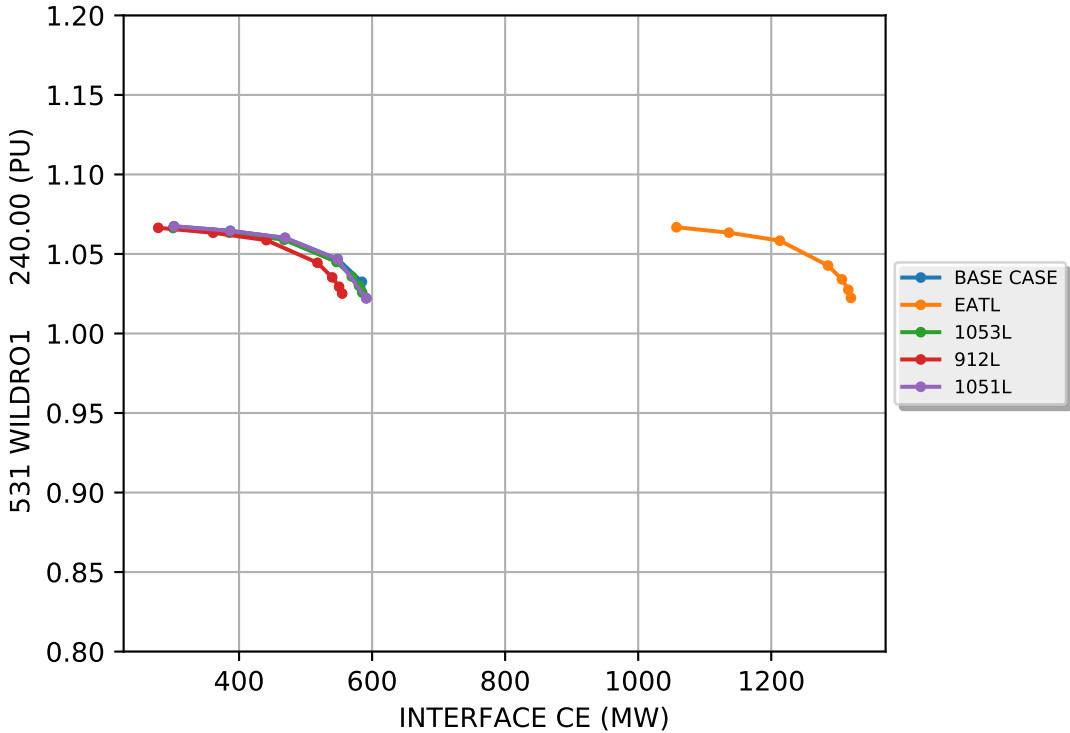


Figure: E-1-33

Case: H3, Option: PRE

Min Voltage: 1.02 PU, Min Margin: 24.8%

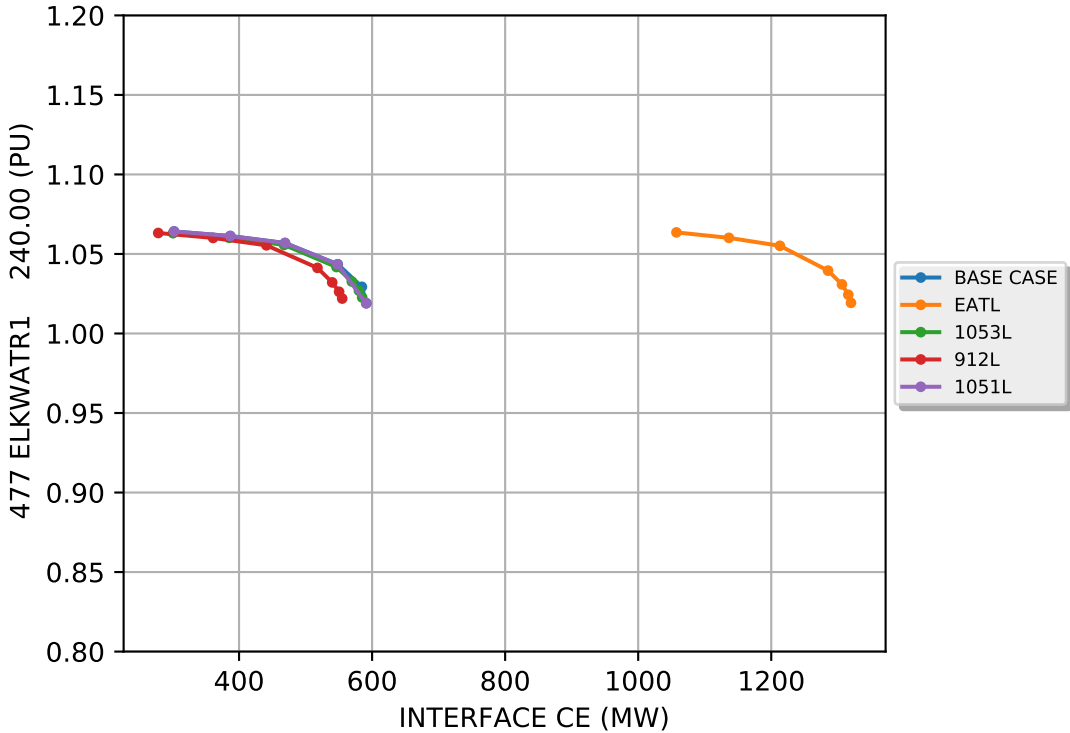


Figure: E-1-34

Case: H3, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 24.8%

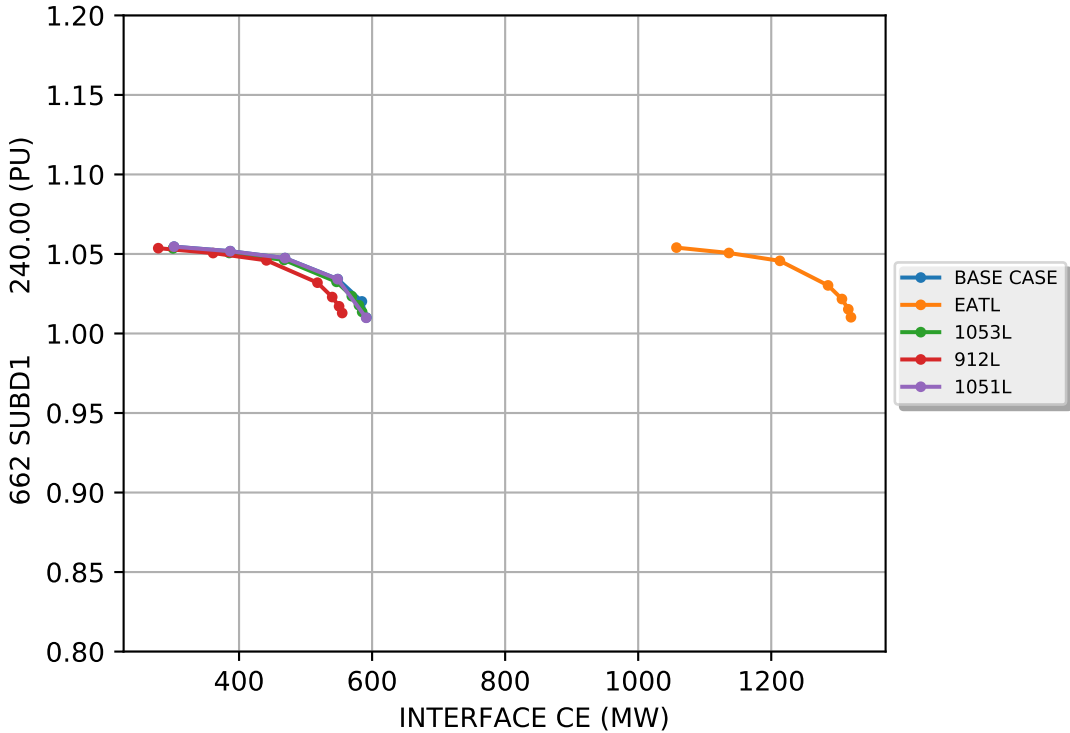


Figure: E-1-35

Case: H3, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 24.8%

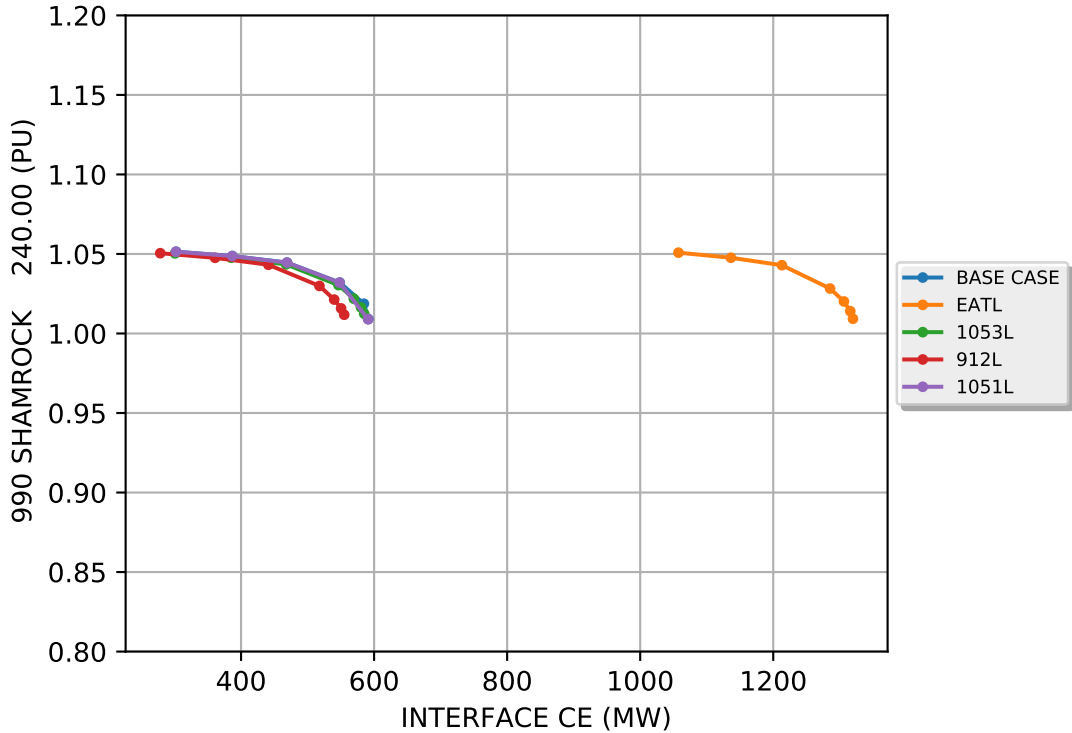


Figure: E-1-36

Case: H6, Option: PRE

Min Voltage: 1.02 PU, Min Margin: 48.3%

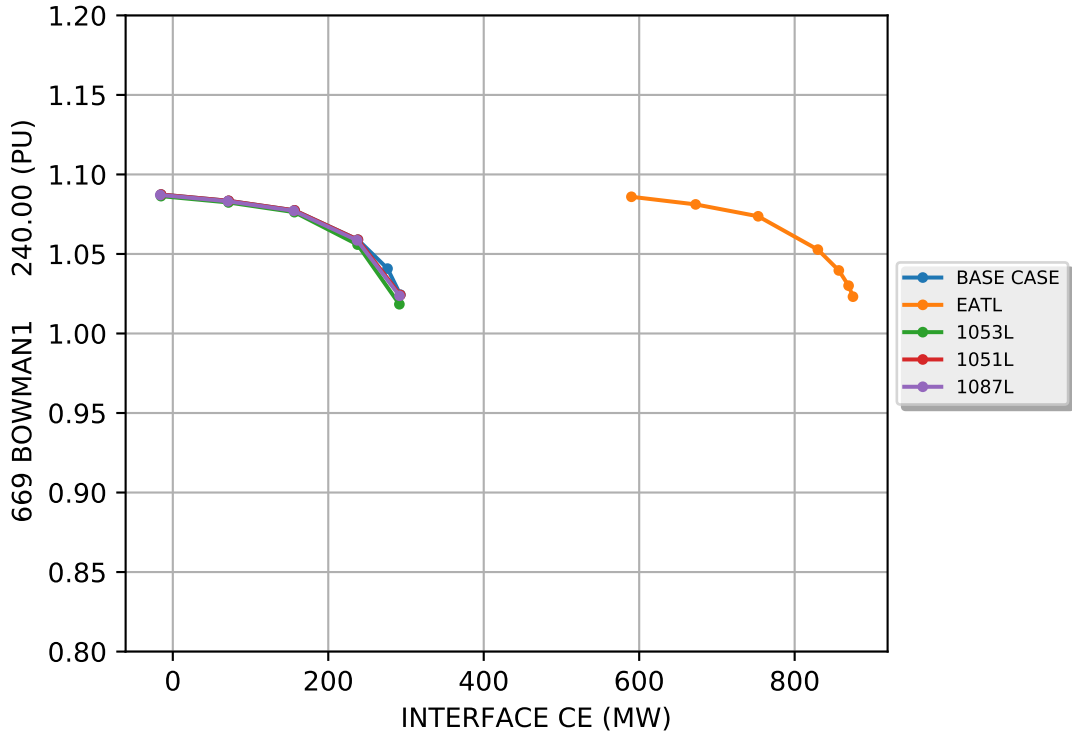


Figure: E-1-37

Case: H6, Option: PRE

Min Voltage: 1.05 PU, Min Margin: 48.3%

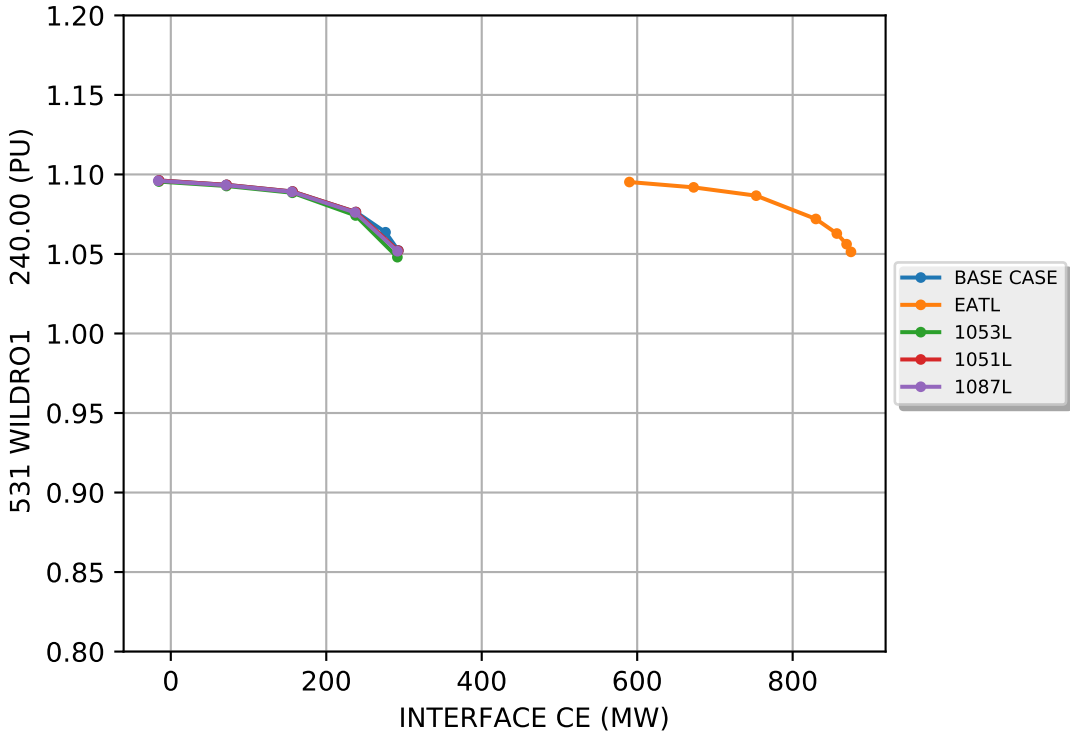


Figure: E-1-38

Case: H6, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 48.3%

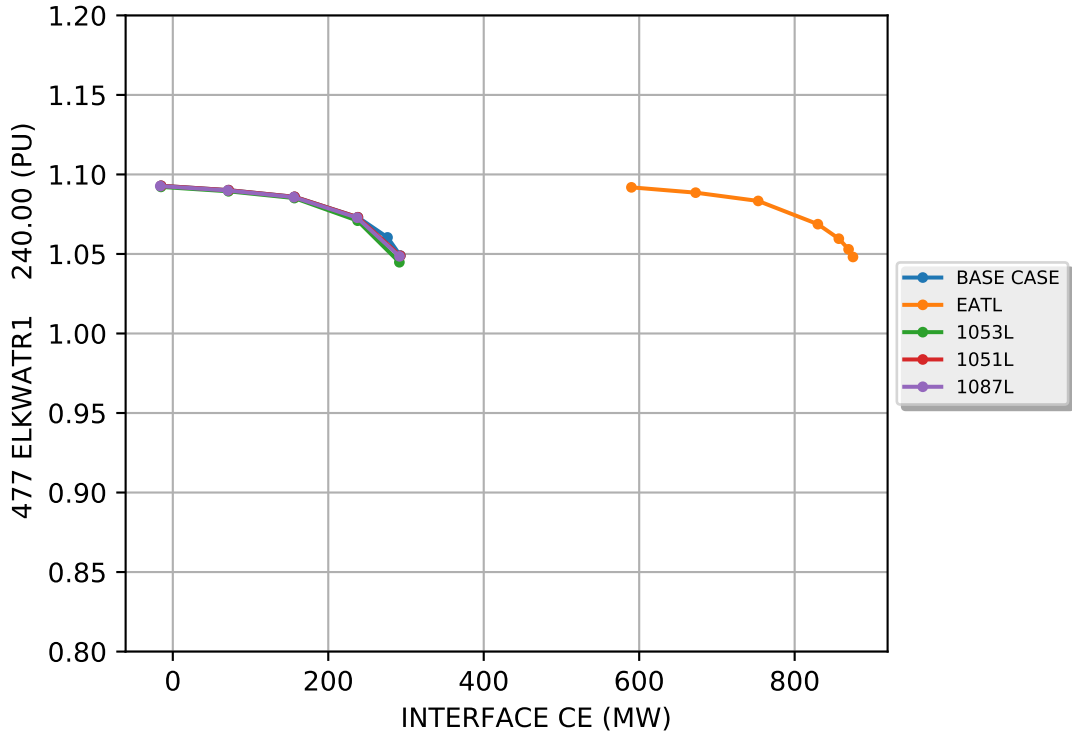


Figure: E-1-39

Case: H6, Option: PRE

Min Voltage: 1.02 PU, Min Margin: 48.3%

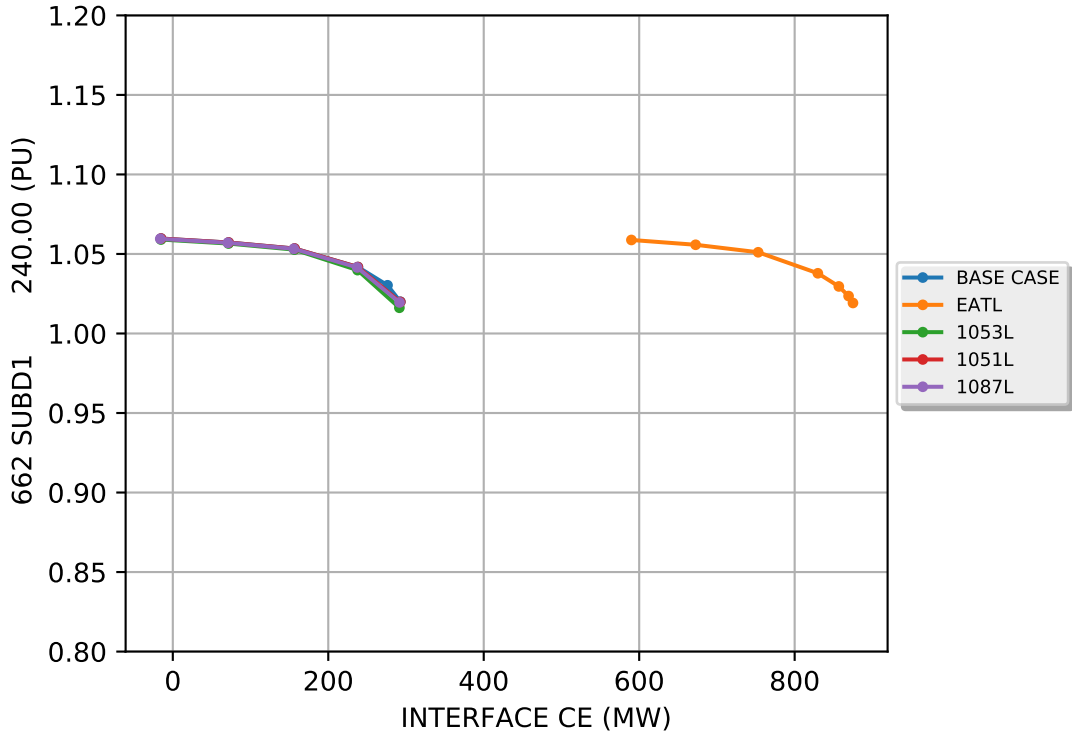


Figure: E-1-40

Case: H6, Option: PRE

Min Voltage: 1.02 PU, Min Margin: 48.3%

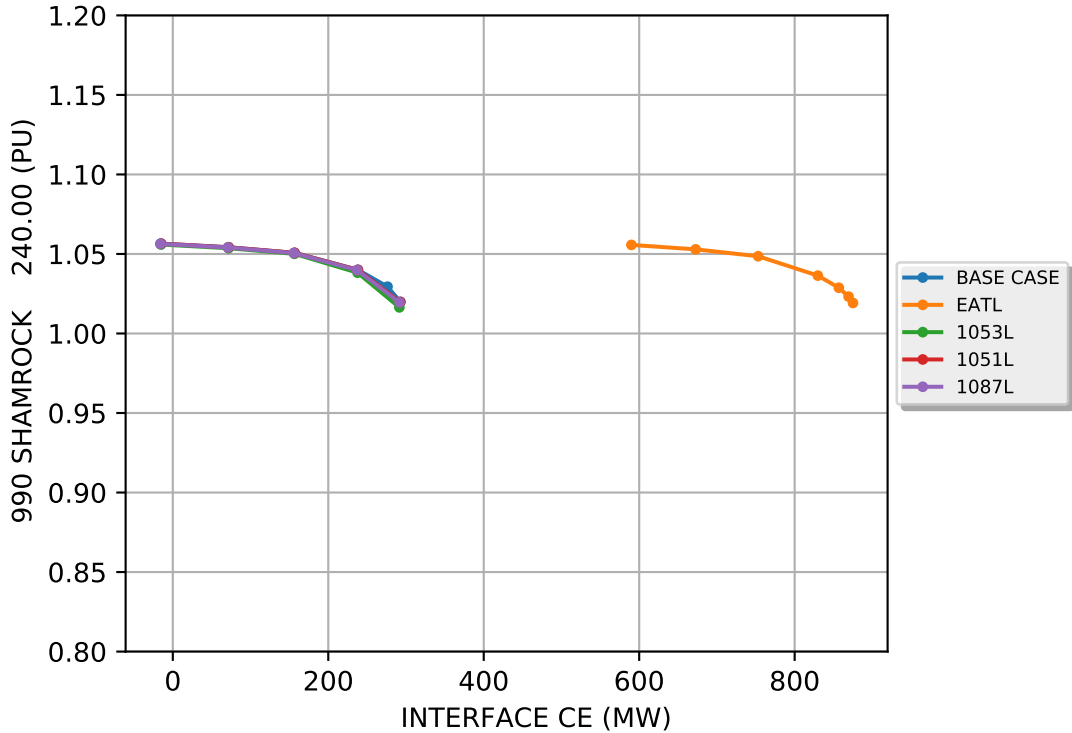


Figure: E-1-41

Case: M1, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 65.4%

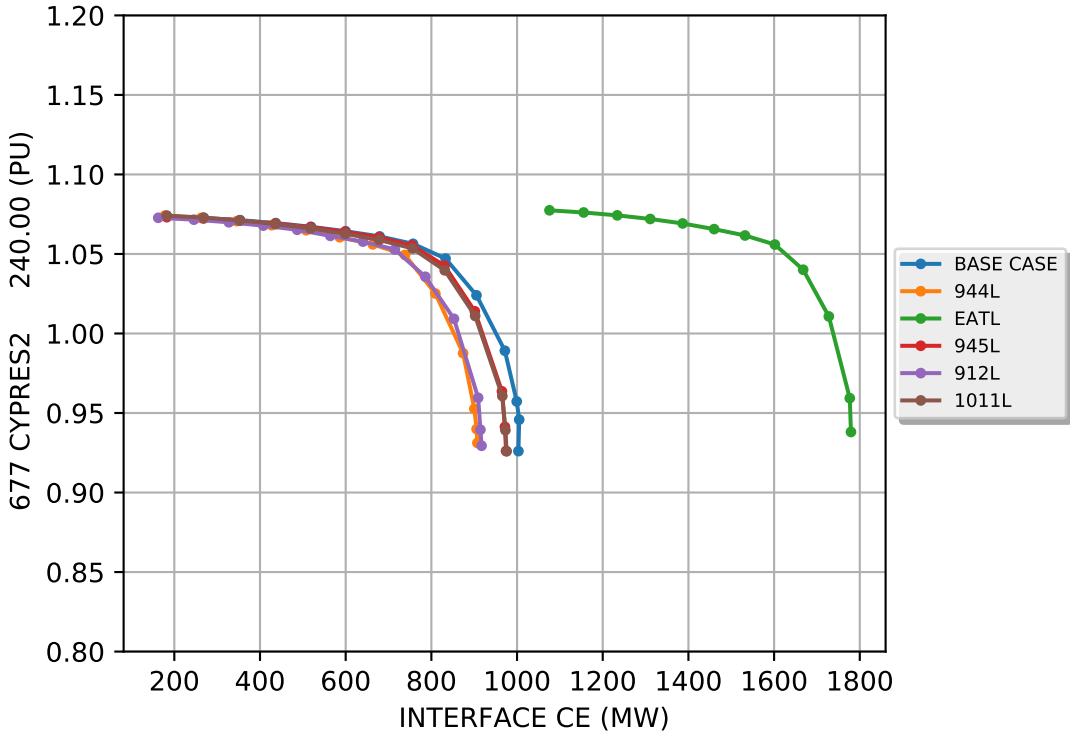


Figure: E-1-42

Case: M1, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 65.4%

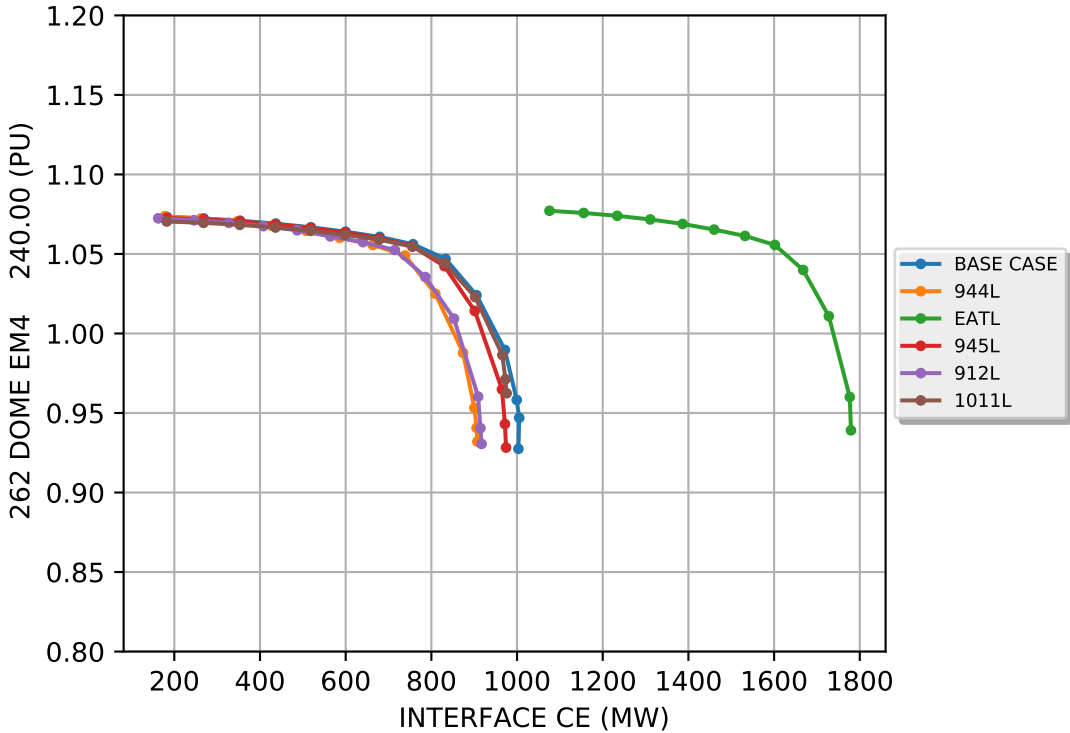


Figure: E-1-43

Case: M1, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 65.4%

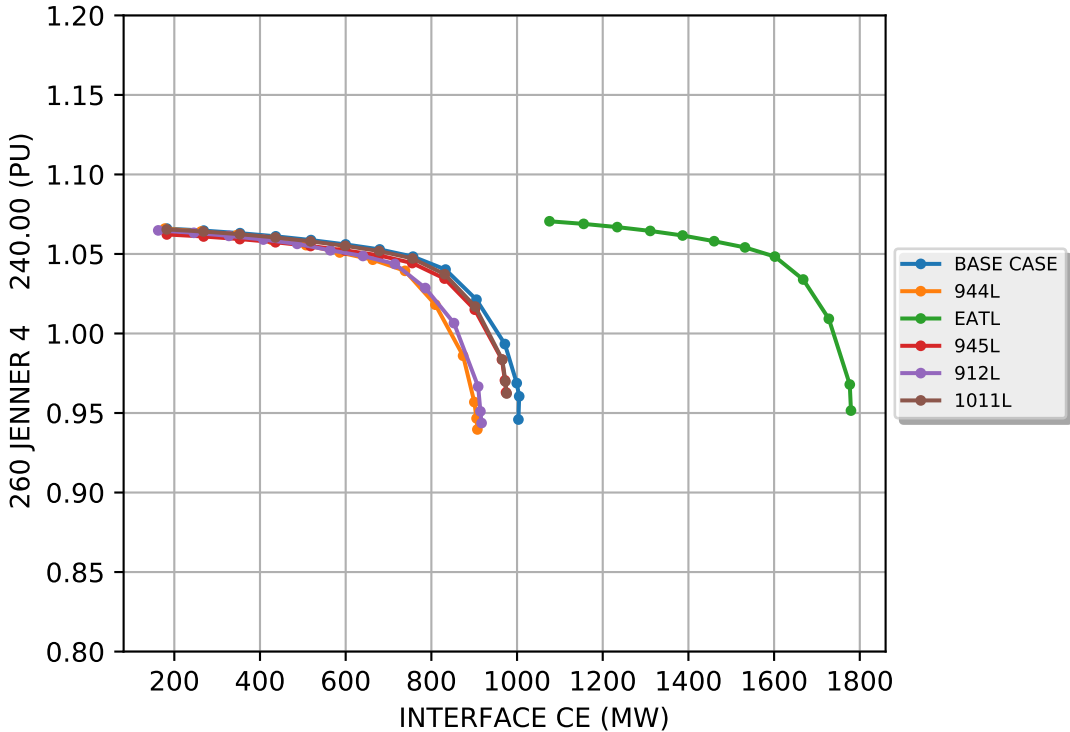


Figure: E-1-44

Case: M1, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 65.4%

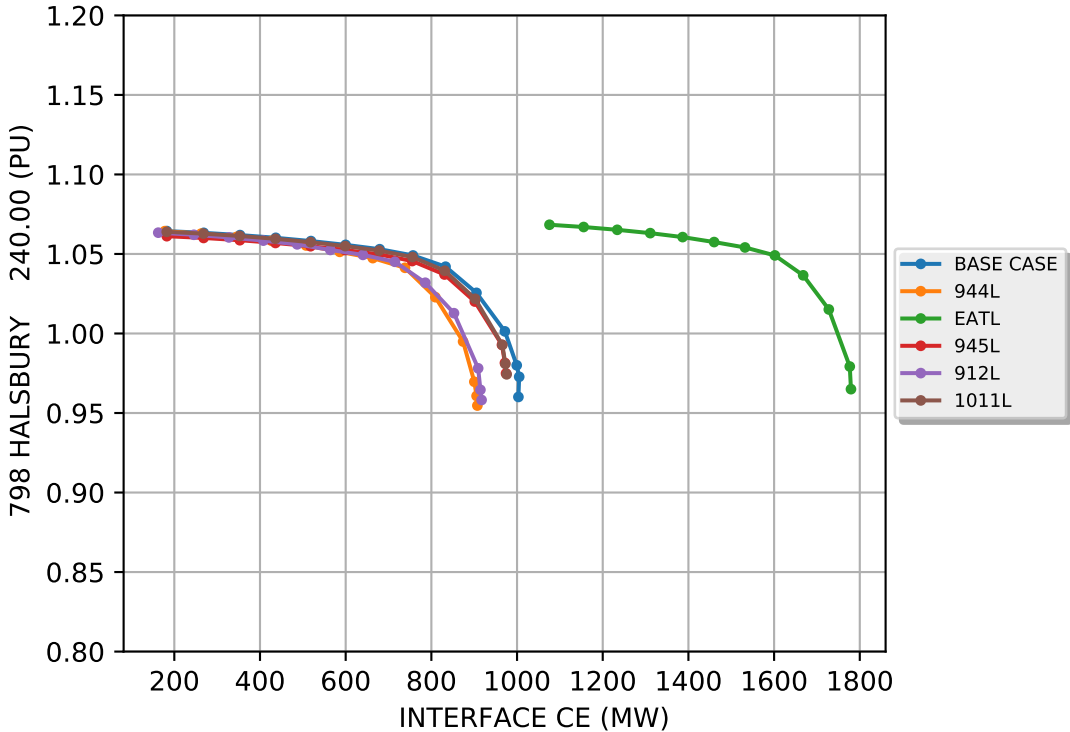


Figure: E-1-45

Case: M1, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 65.4%

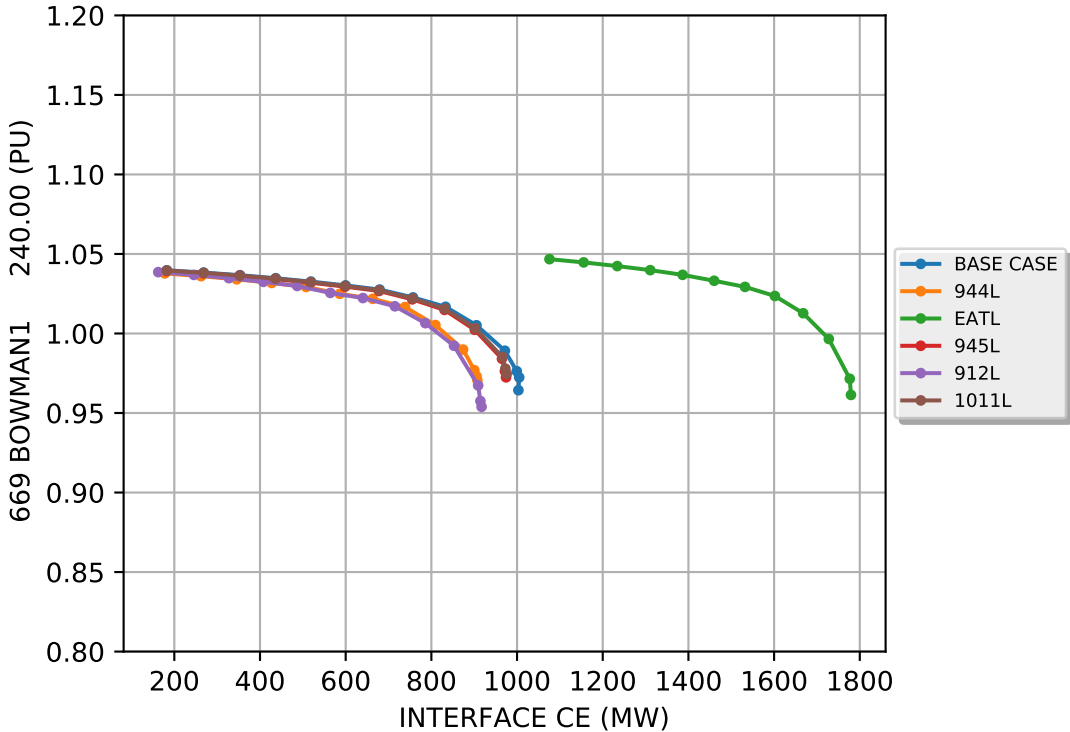


Figure: E-1-46

Case: M1, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 65.4%

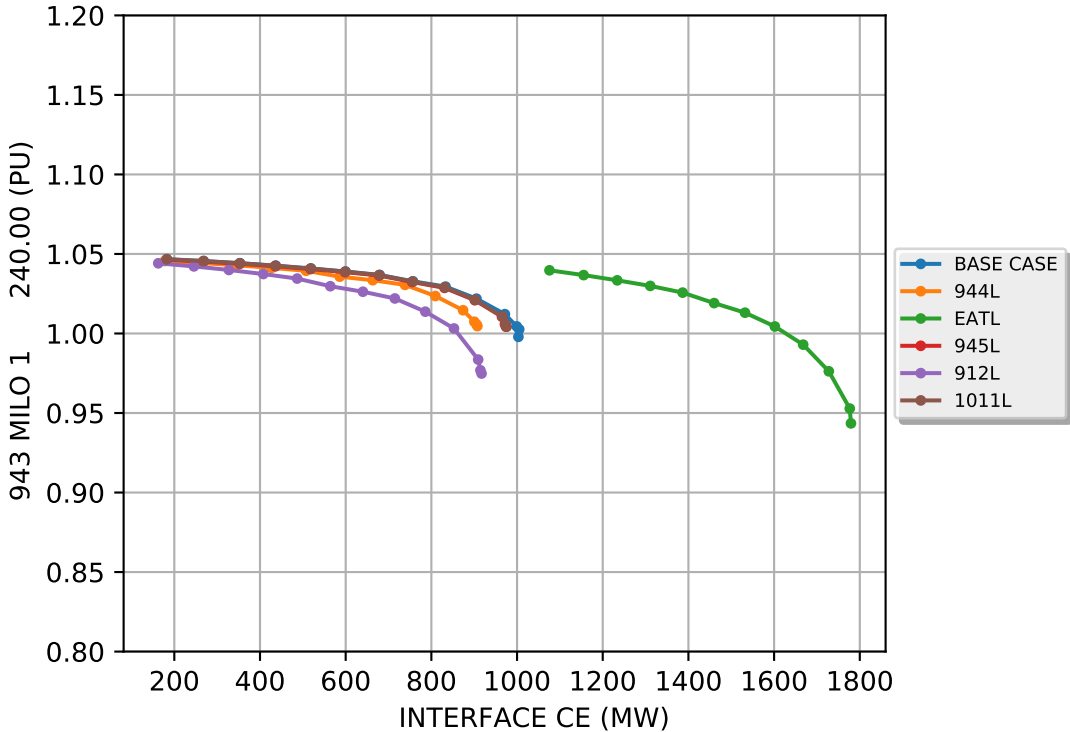


Figure: E-1-47

Case: M1, Option: PRE

Min Voltage: 0.97 PU, Min Margin: 65.4%

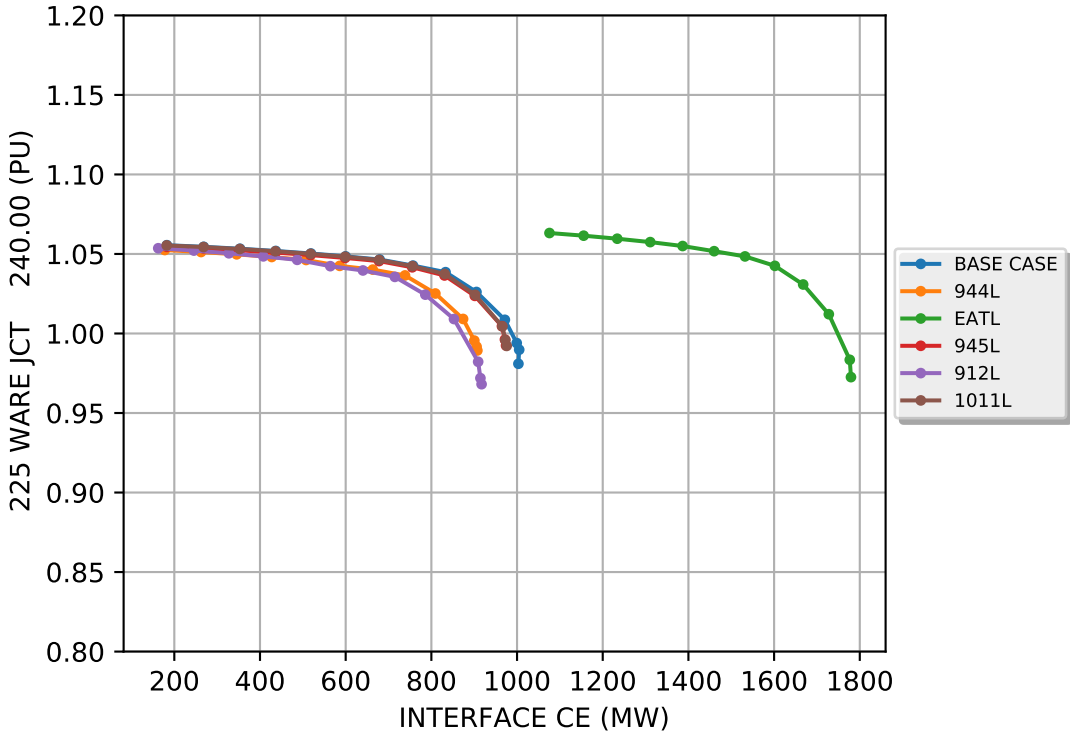


Figure: E-1-48

Case: M5, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 36.3%

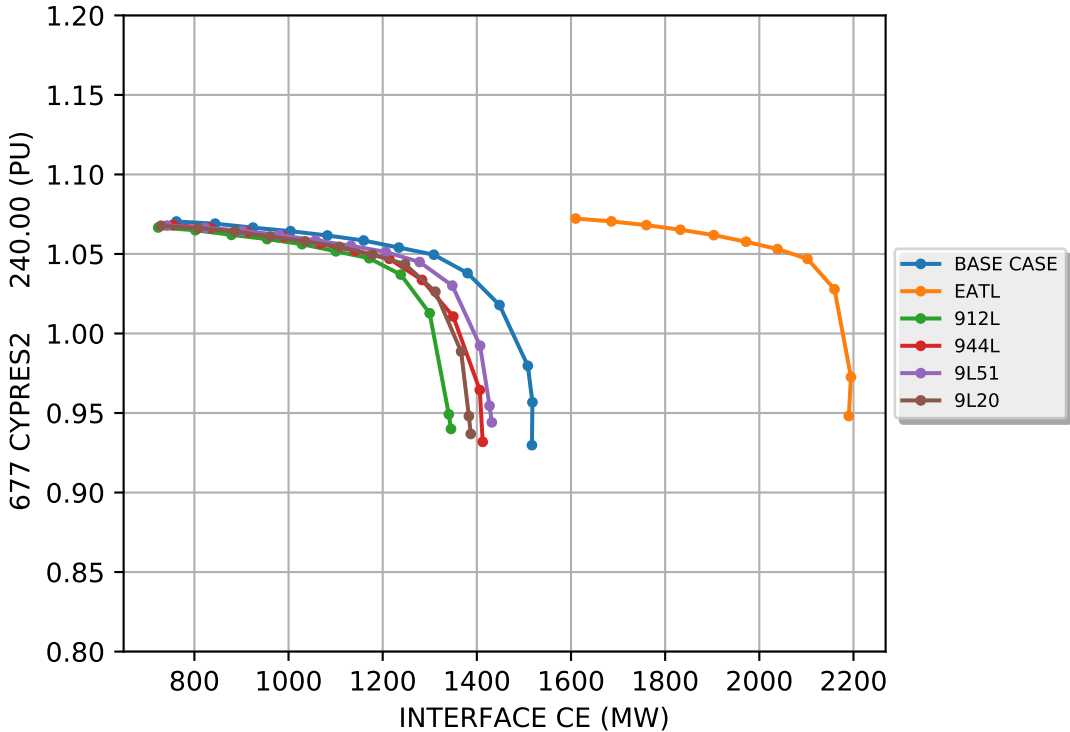


Figure: E-1-49

Case: M5, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 36.3%

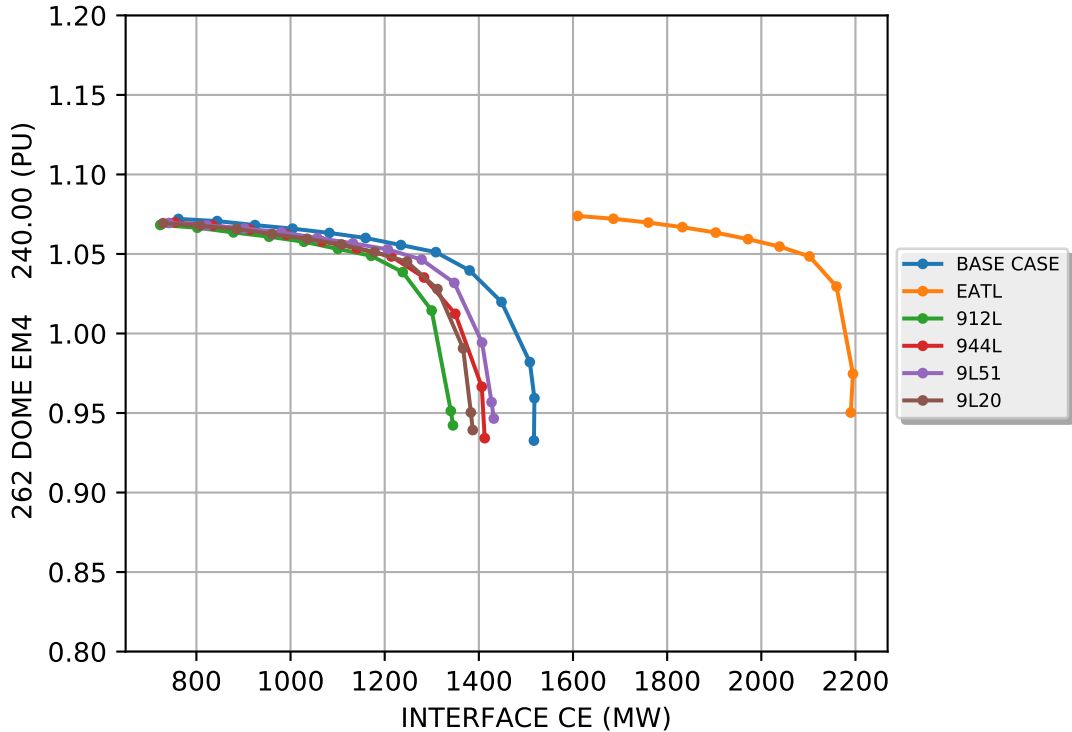


Figure: E-1-50

Case: M5, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 36.3%

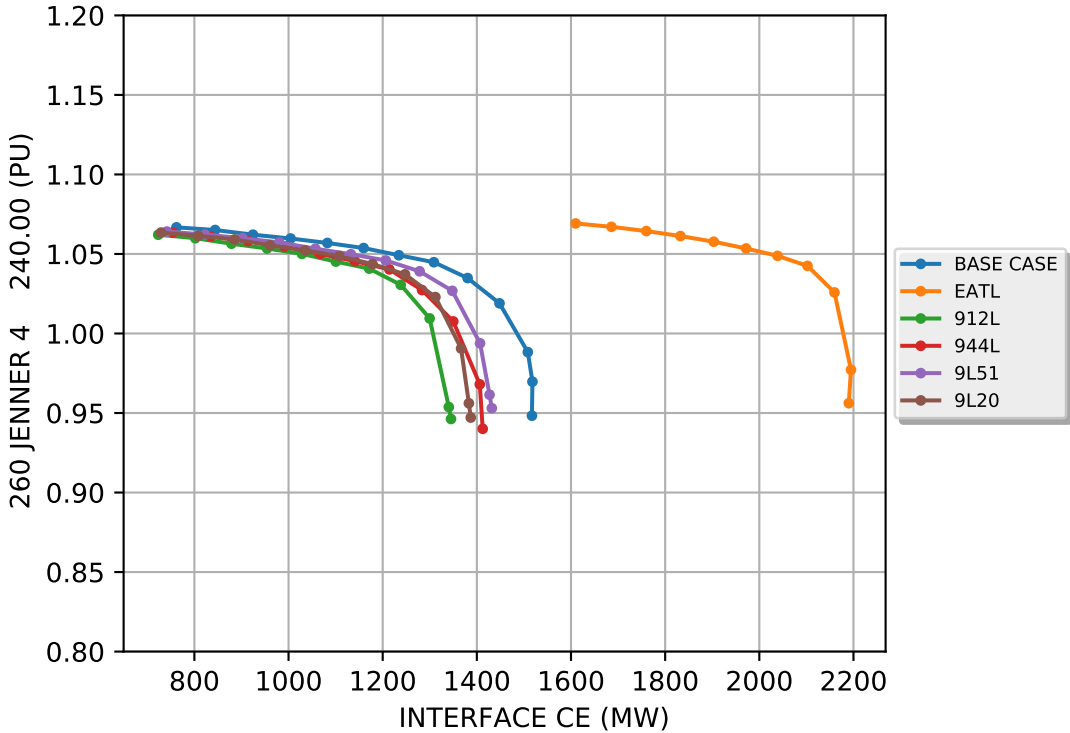


Figure: E-1-51

Case: M5, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 36.3%

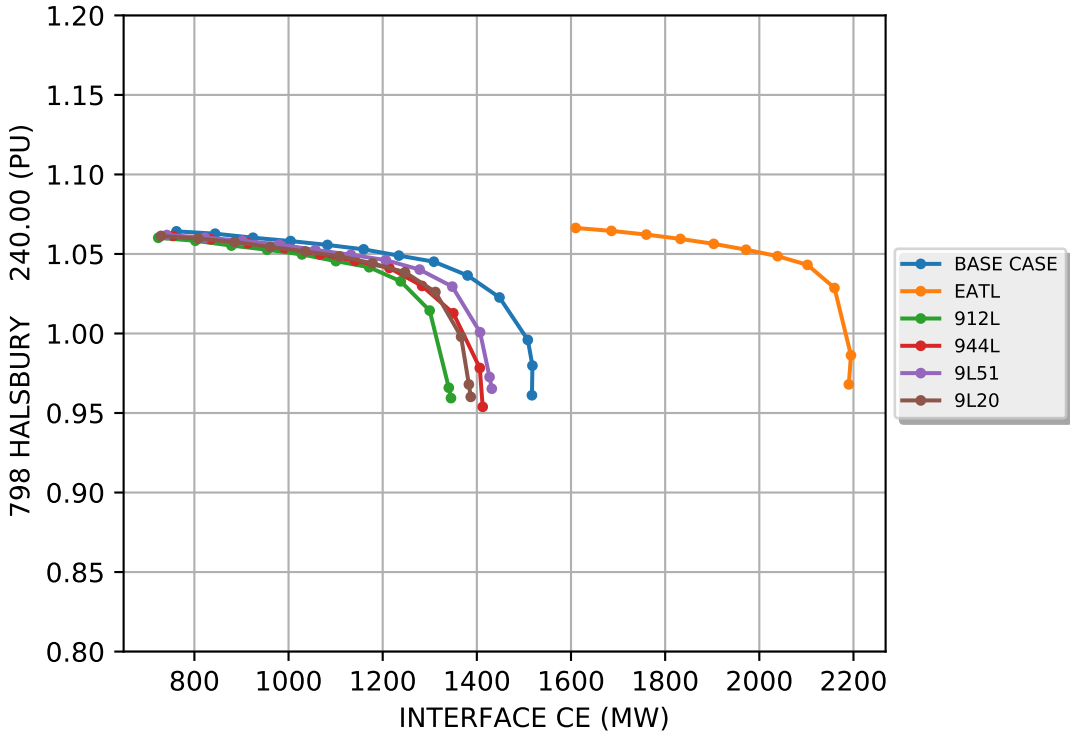


Figure: E-1-52

Case: M5, Option: PRE

Min Voltage: 0.96 PU, Min Margin: 36.3%

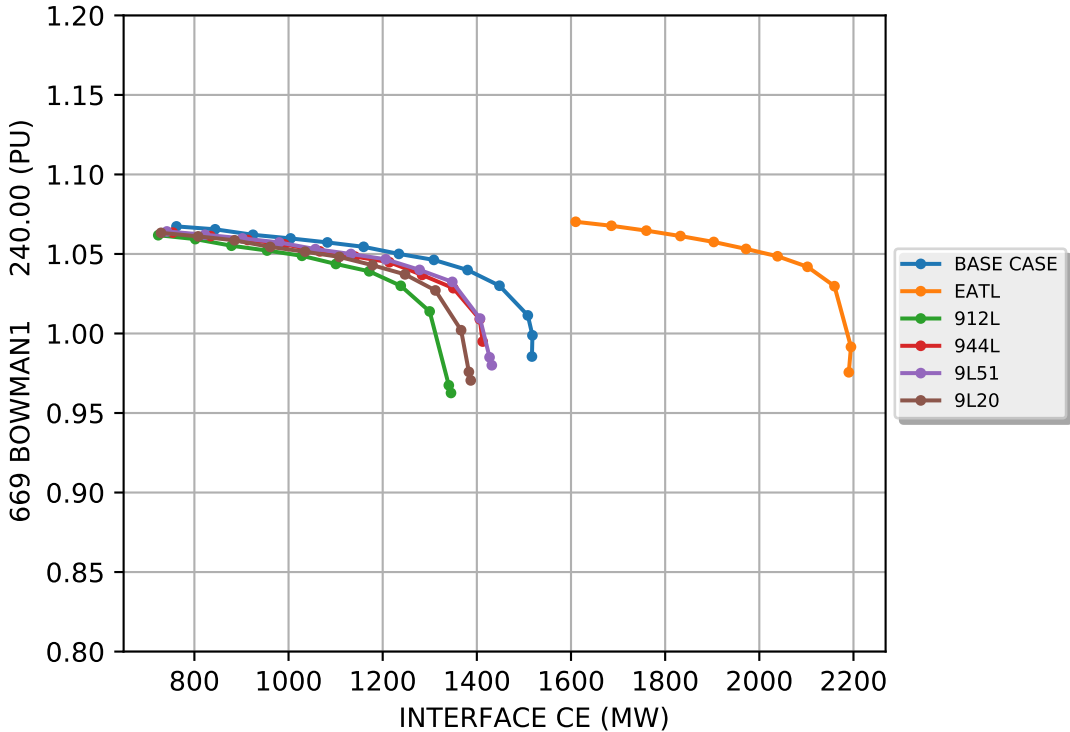


Figure: E-1-53

Case: M5, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 36.3%

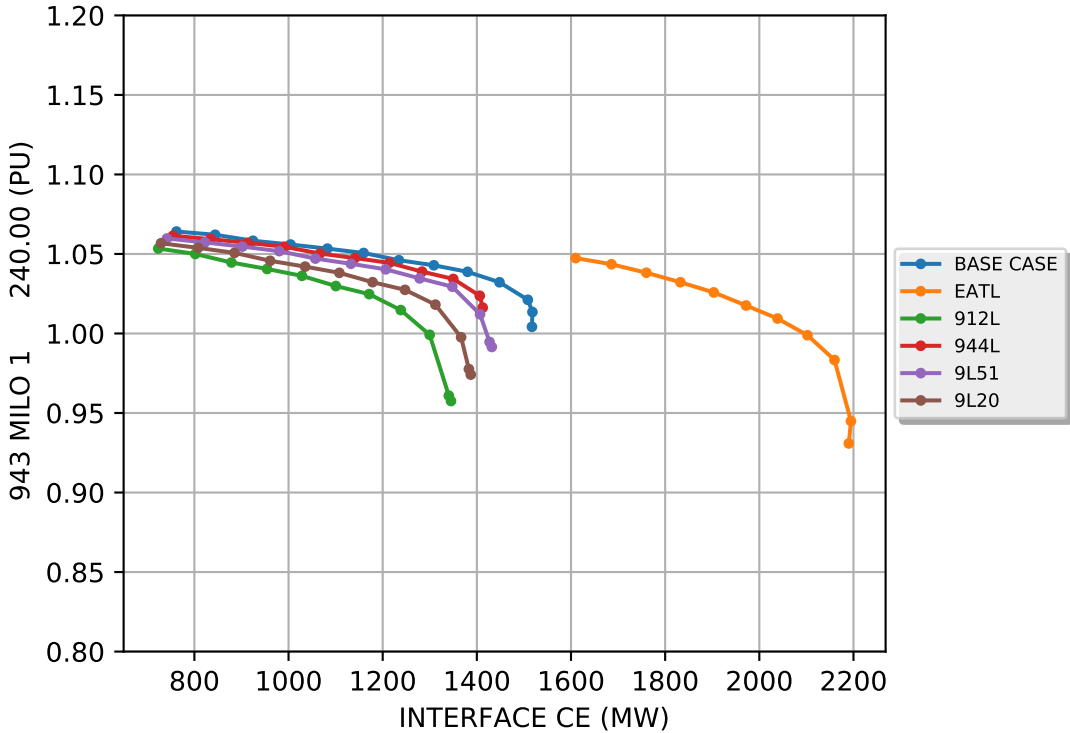


Figure: E-1-54

Case: M5, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 36.3%

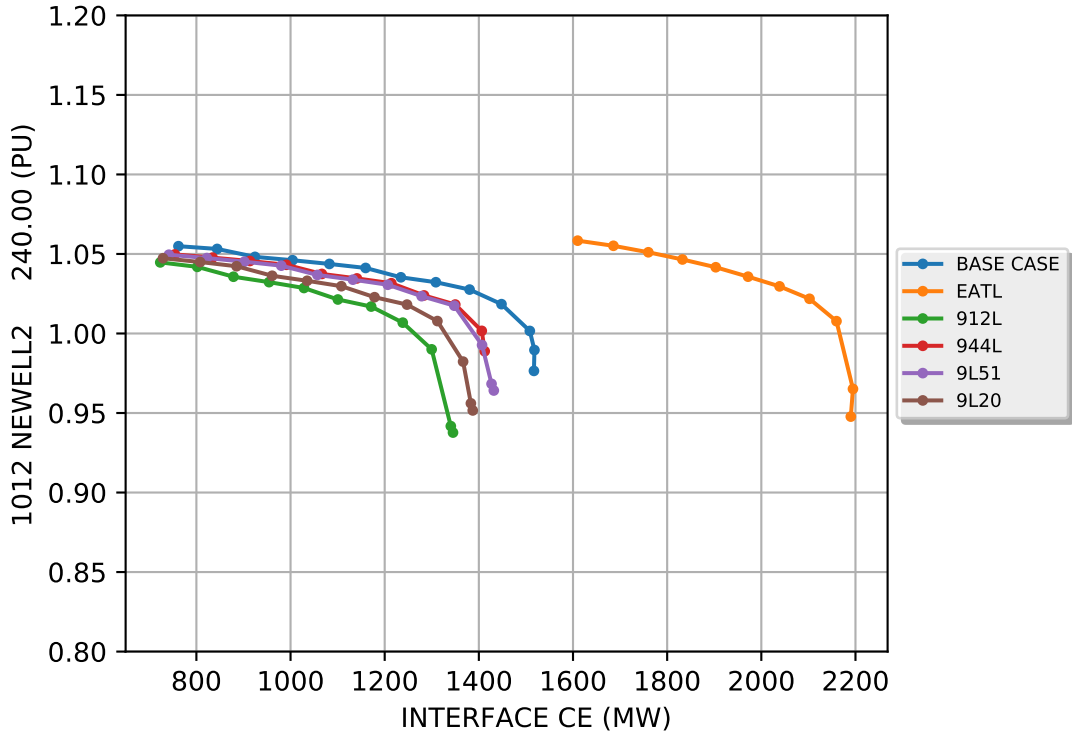


Figure: E-1-55

Case: M5, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 36.3%

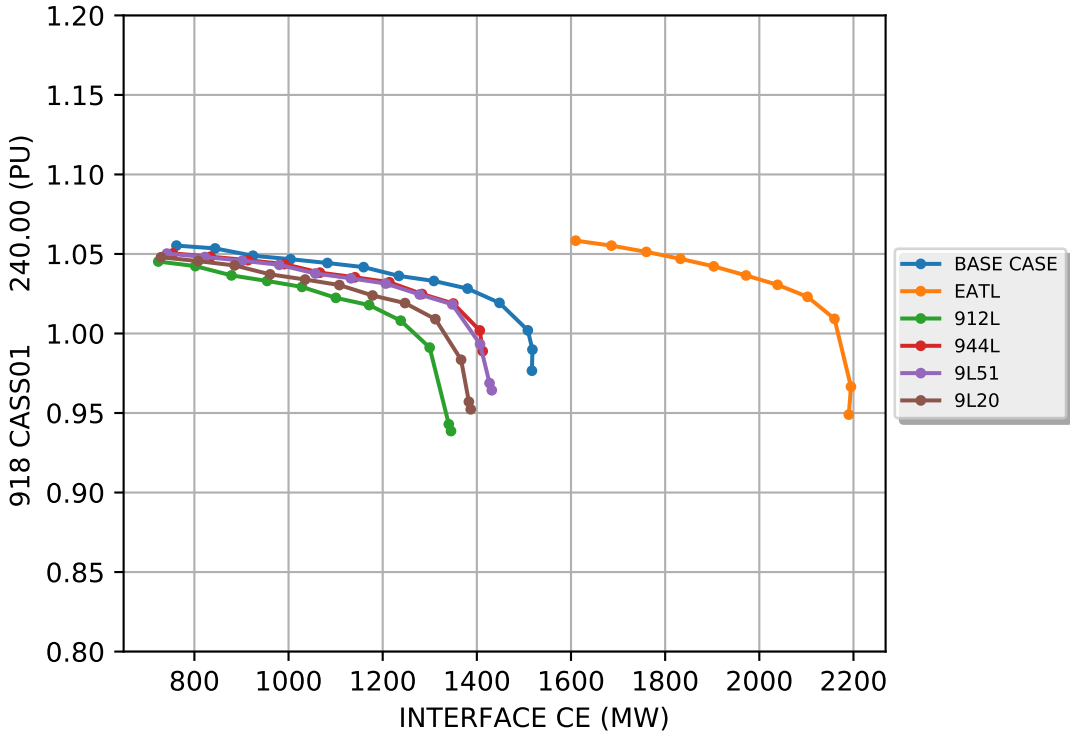


Figure: E-1-56

Case: M5, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 36.3%

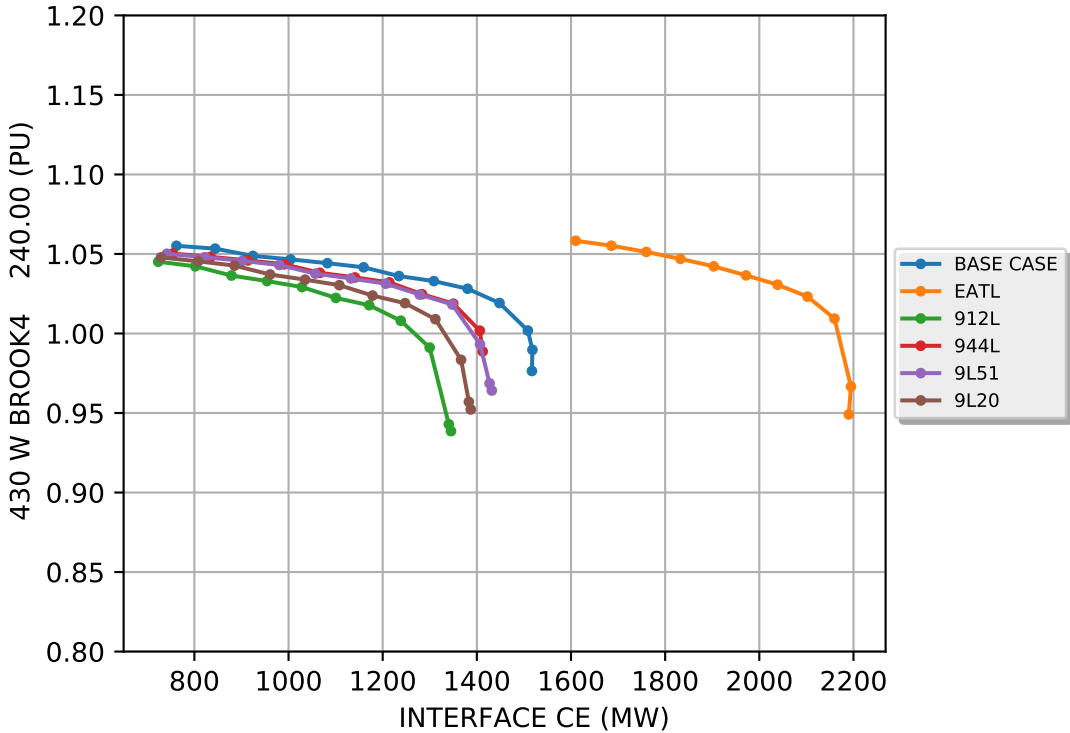


Figure: E-1-57

Case: M2, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 53.4%

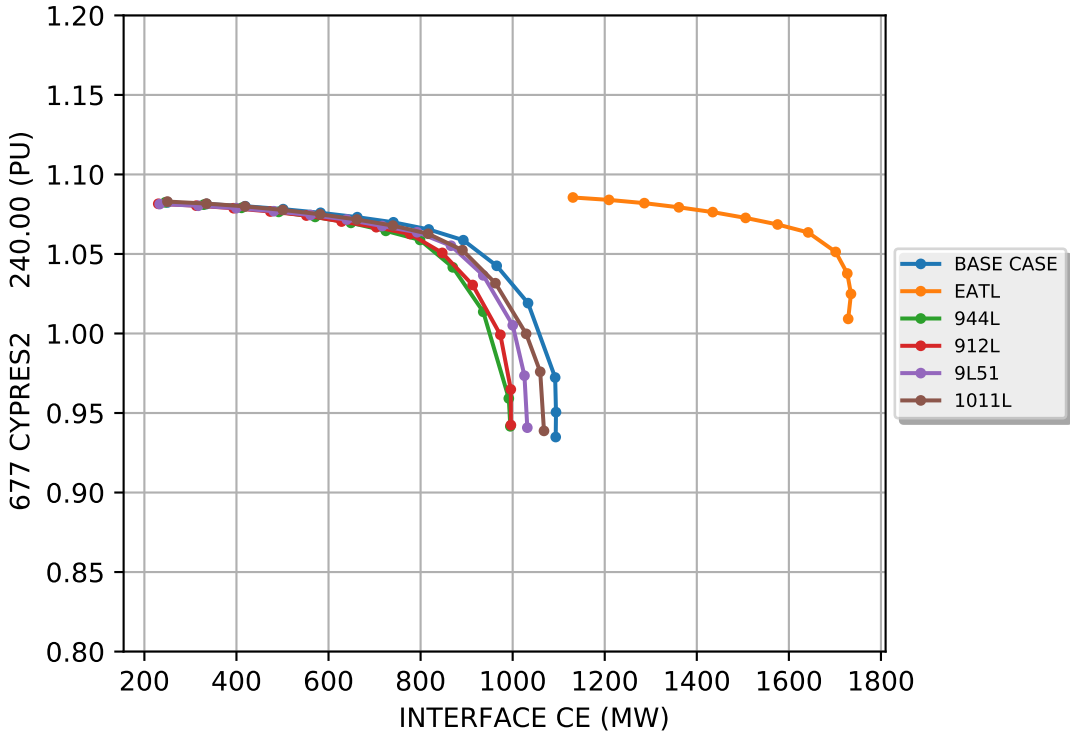


Figure: E-1-58

Case: M2, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 53.4%

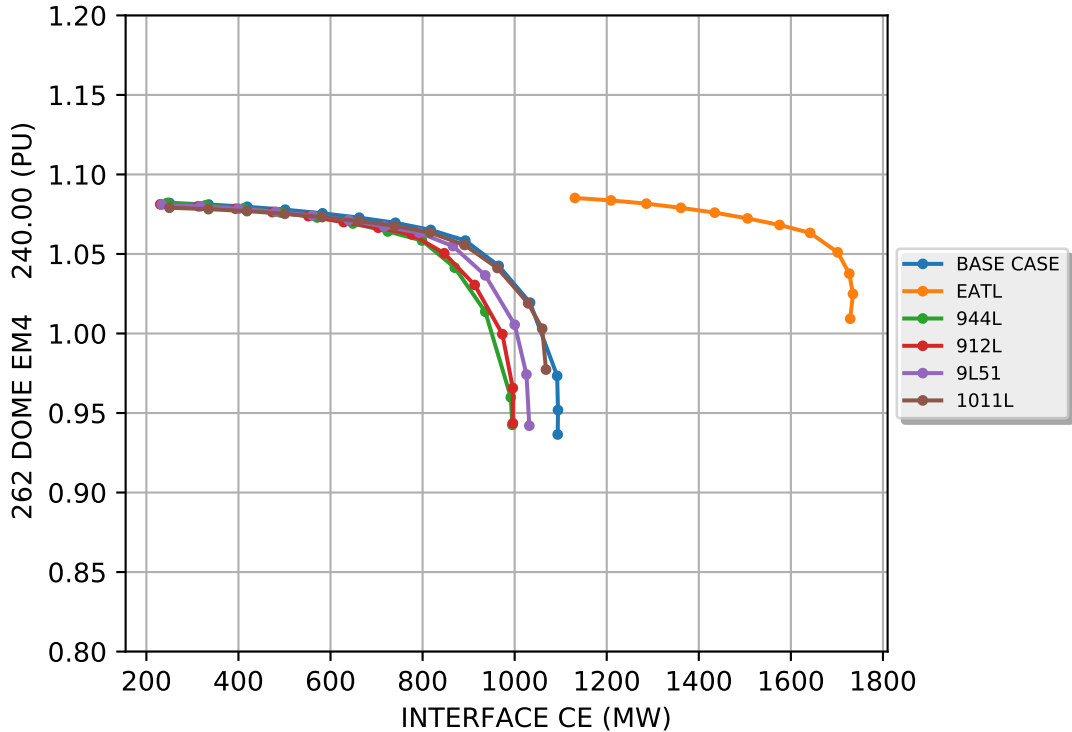


Figure: E-1-59

Case: M2, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 53.4%

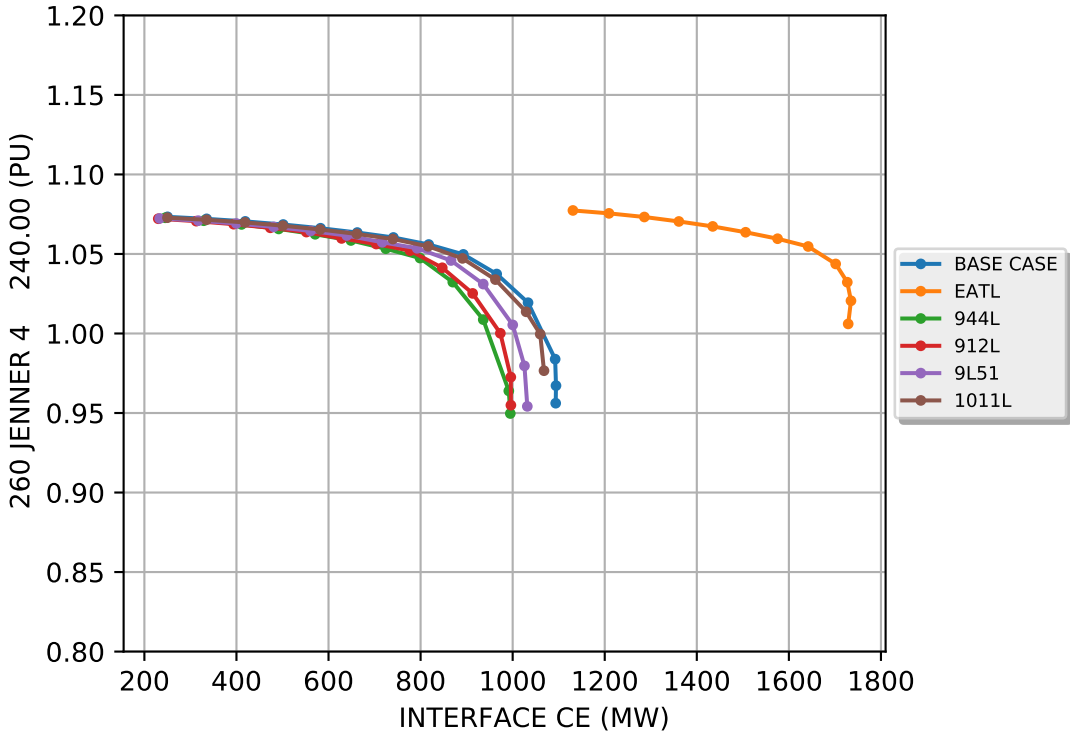


Figure: E-1-60

Case: M2, Option: PRE

Min Voltage: 0.96 PU, Min Margin: 53.4%

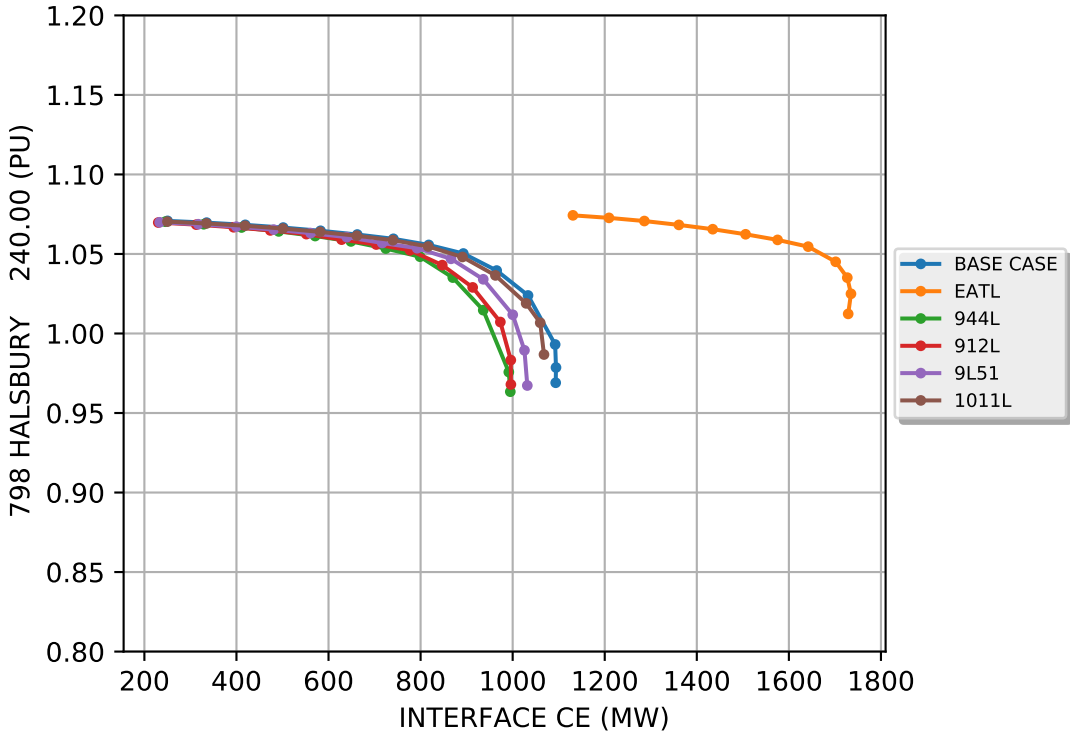


Figure: E-1-61

Case: M2, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 53.4%

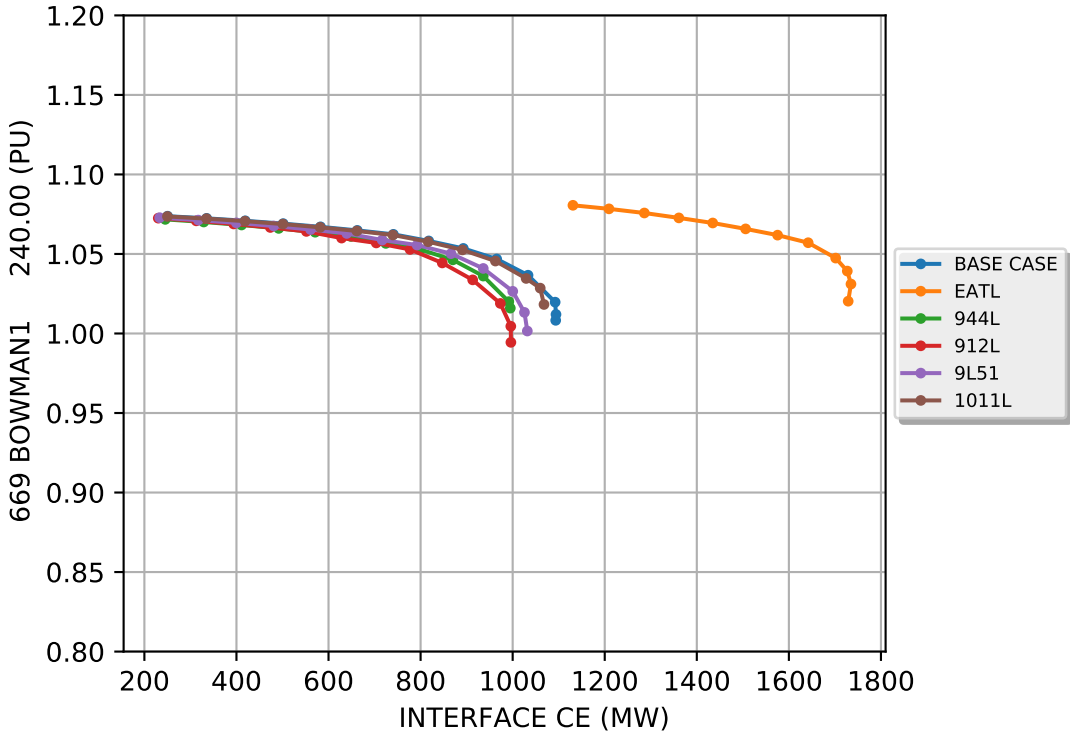


Figure: E-1-62

Case: M2, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 53.4%

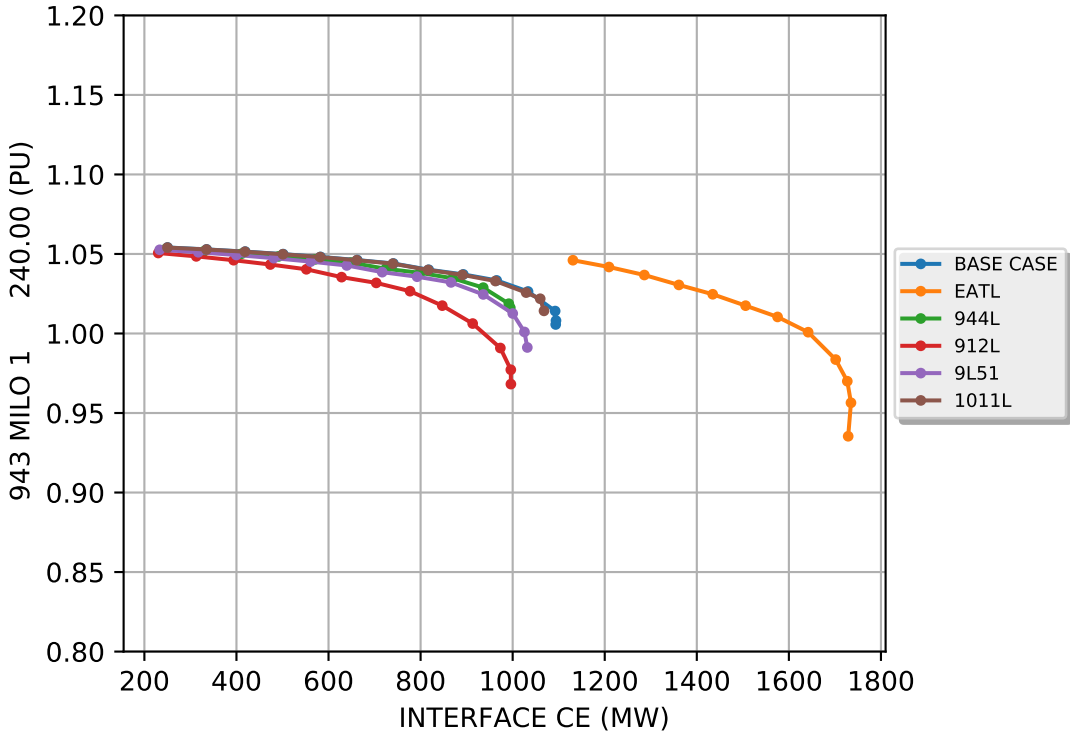


Figure: E-1-63

Case: M2, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 53.4%

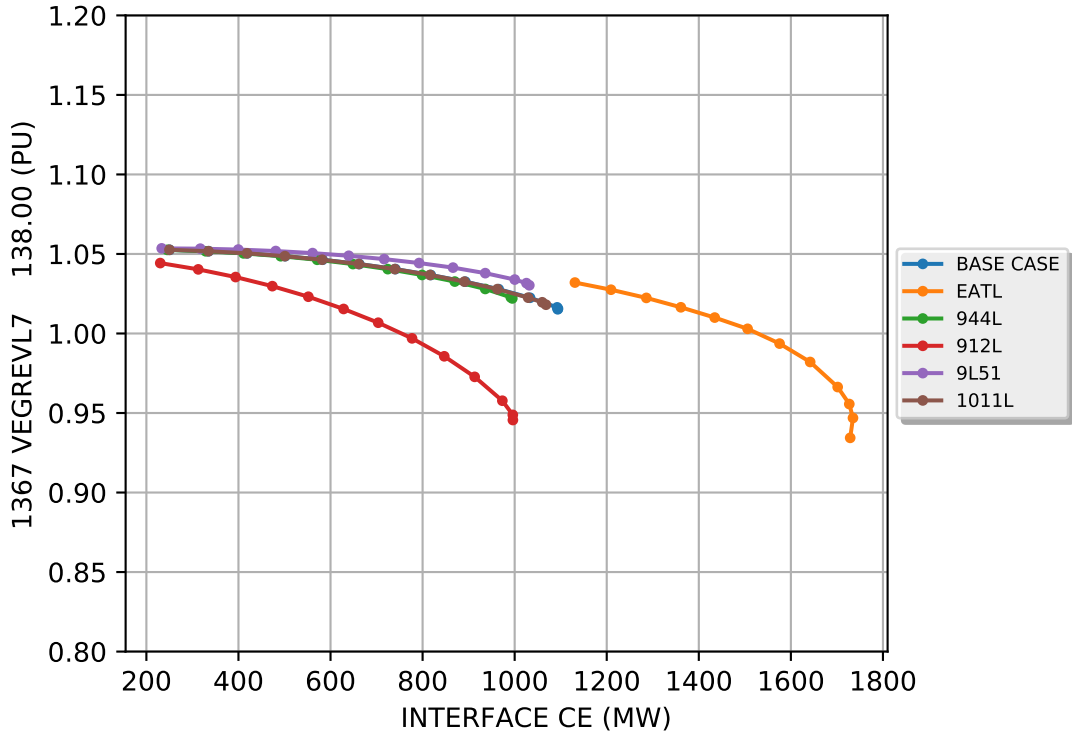


Figure: E-1-64

Case: M2, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 53.4%

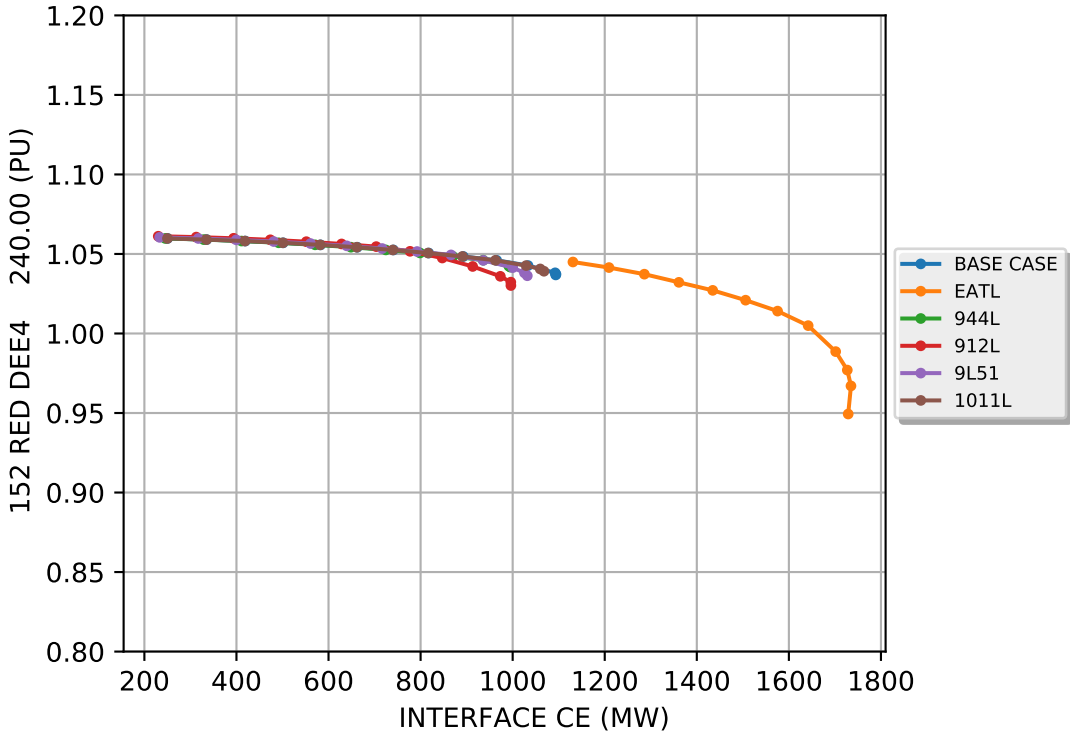


Figure: E-1-65

Case: M2, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 53.4%

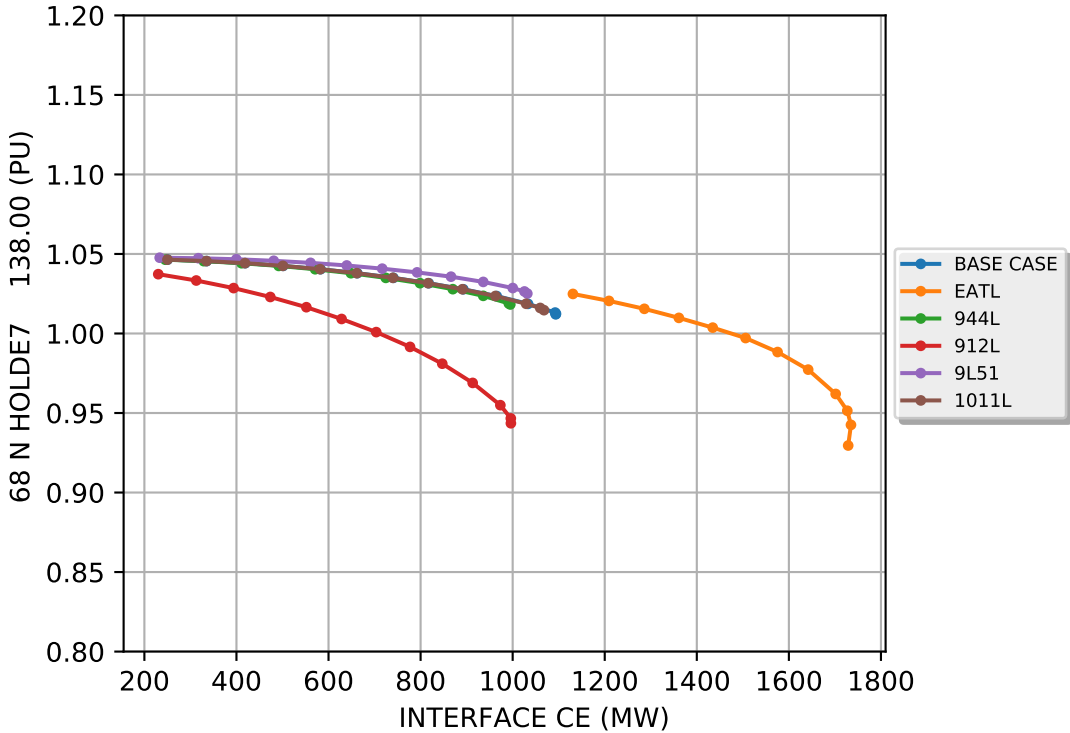


Figure: E-1-66

Case: M2, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 53.4%

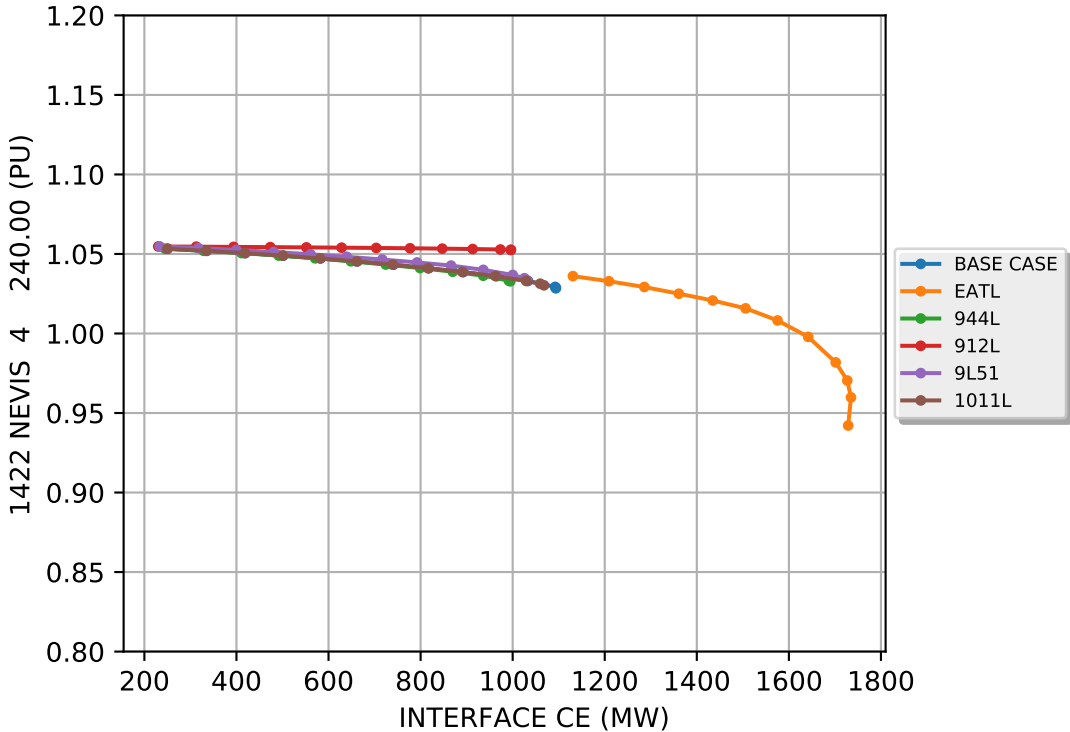


Figure: E-1-67

Case: M2, Option: PRE

Min Voltage: 0.98 PU, Min Margin: 53.4%

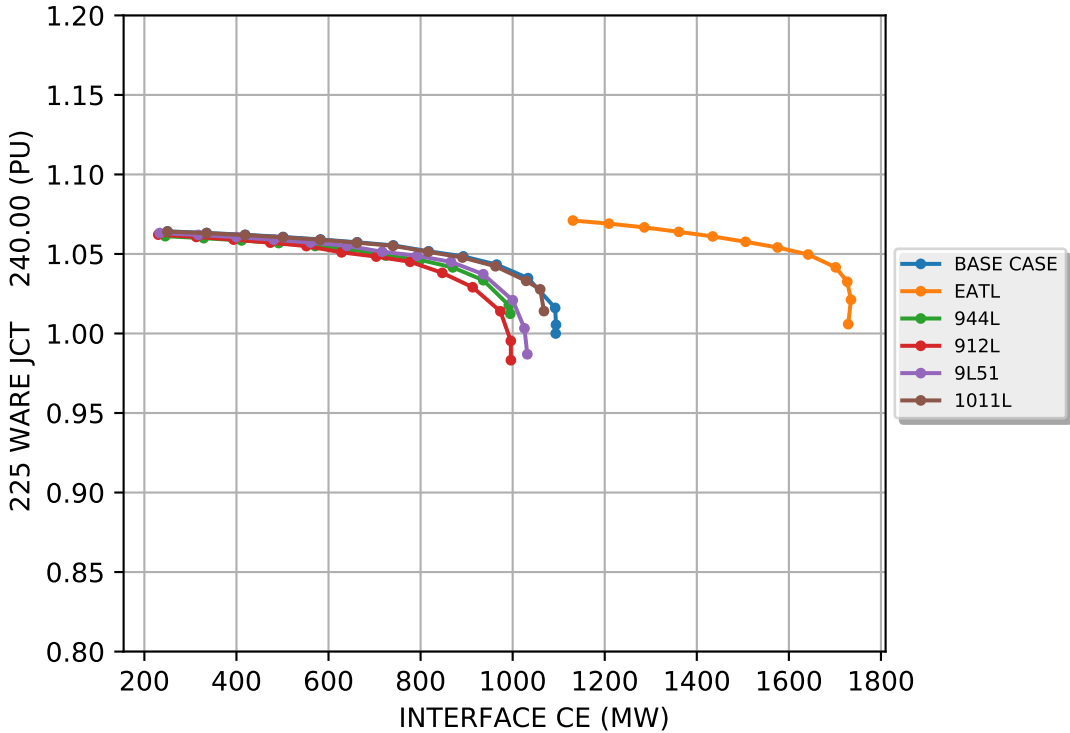


Figure: E-1-68

Case: M3, Option: PRE

Min Voltage: 0.91 PU, Min Margin: 120.3%

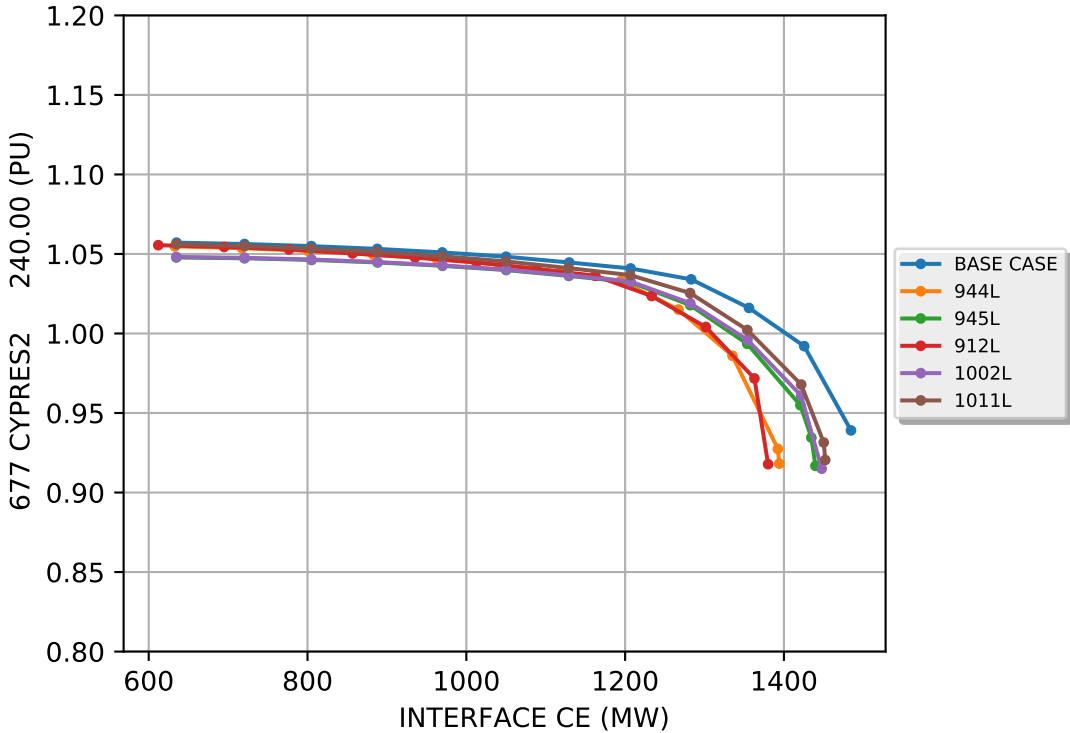


Figure: E-1-69

Case: M3, Option: PRE

Min Voltage: 0.91 PU, Min Margin: 120.3%

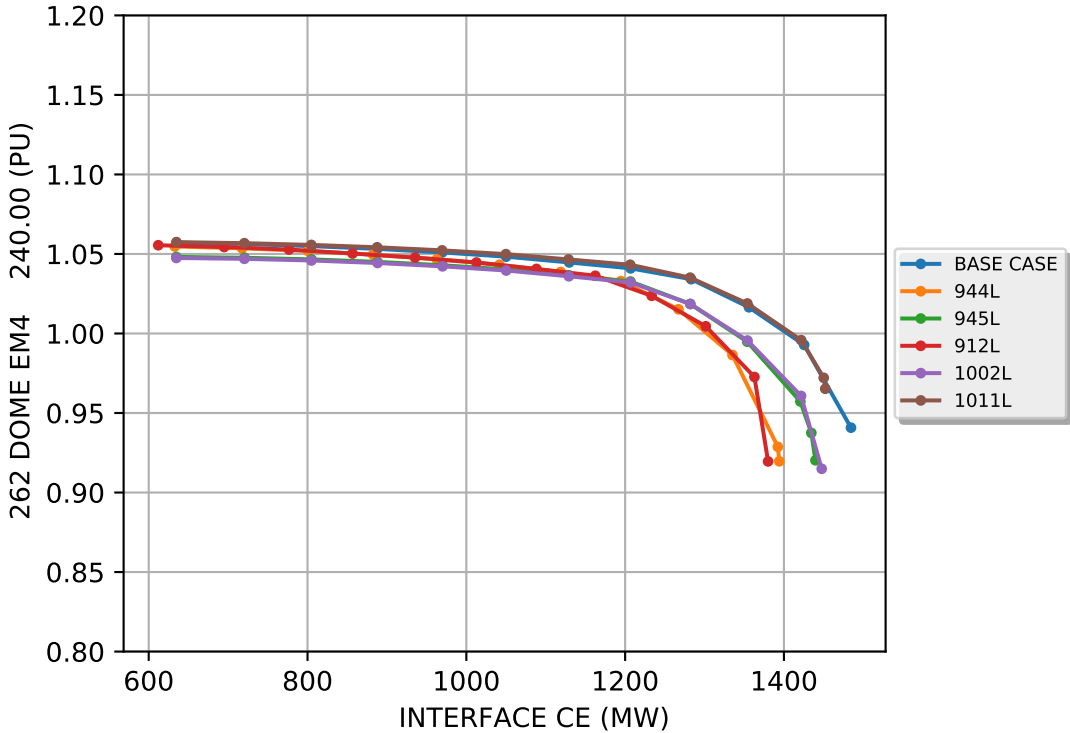


Figure: E-1-70

Case: M3, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 120.3%

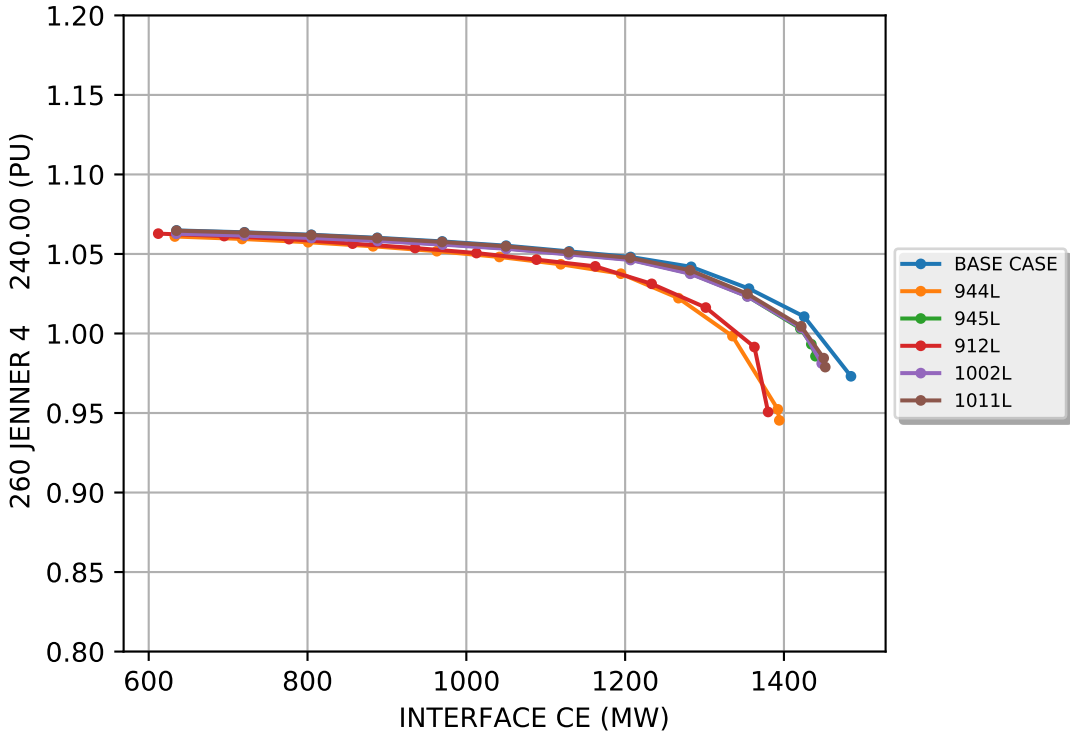


Figure: E-1-71

Case: M3, Option: PRE

Min Voltage: 0.96 PU, Min Margin: 120.3%

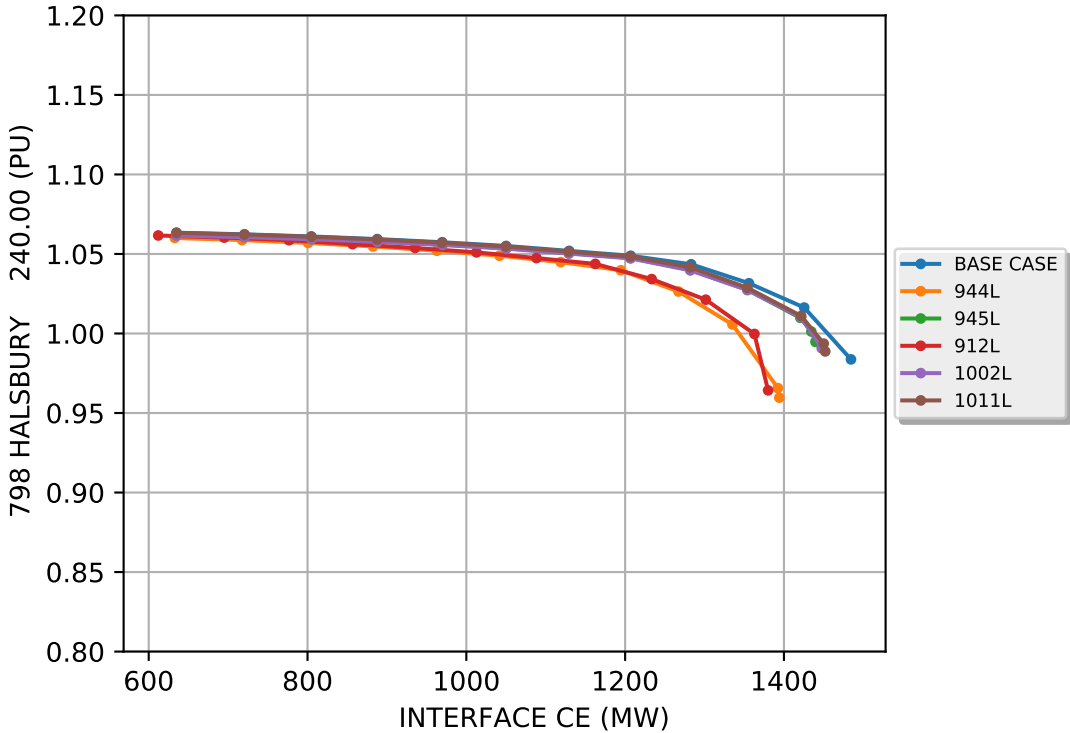


Figure: E-1-72

Case: M3, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 120.3%

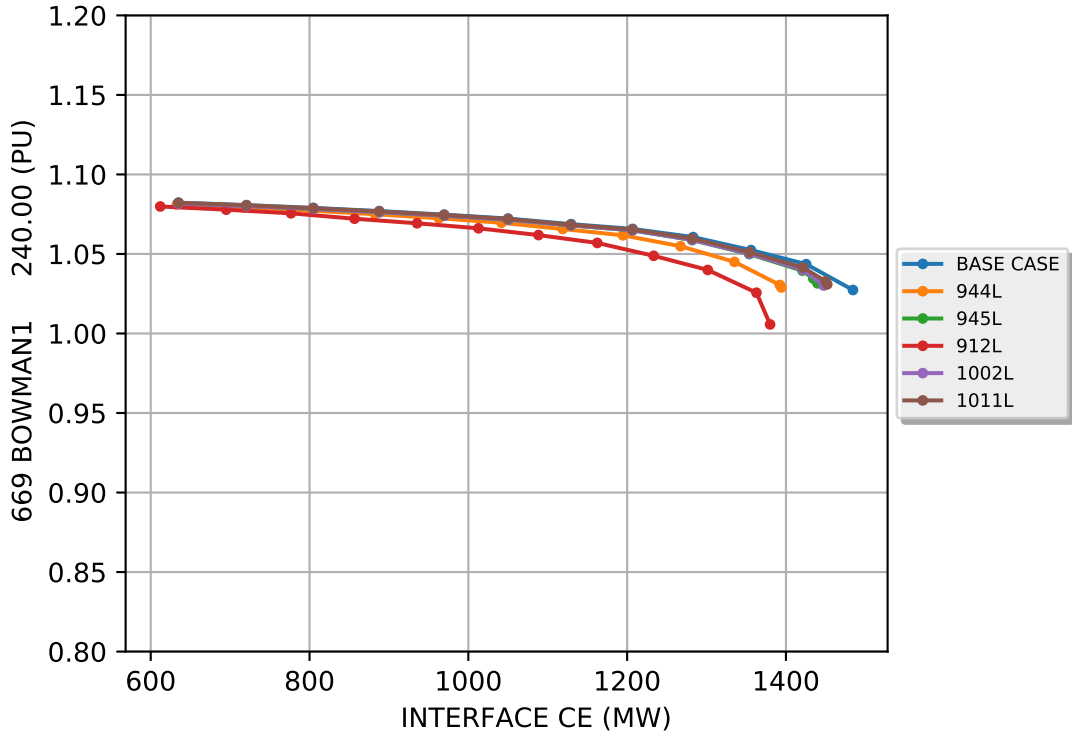


Figure: E-1-73

Case: M3, Option: PRE

Min Voltage: 0.97 PU, Min Margin: 120.3%

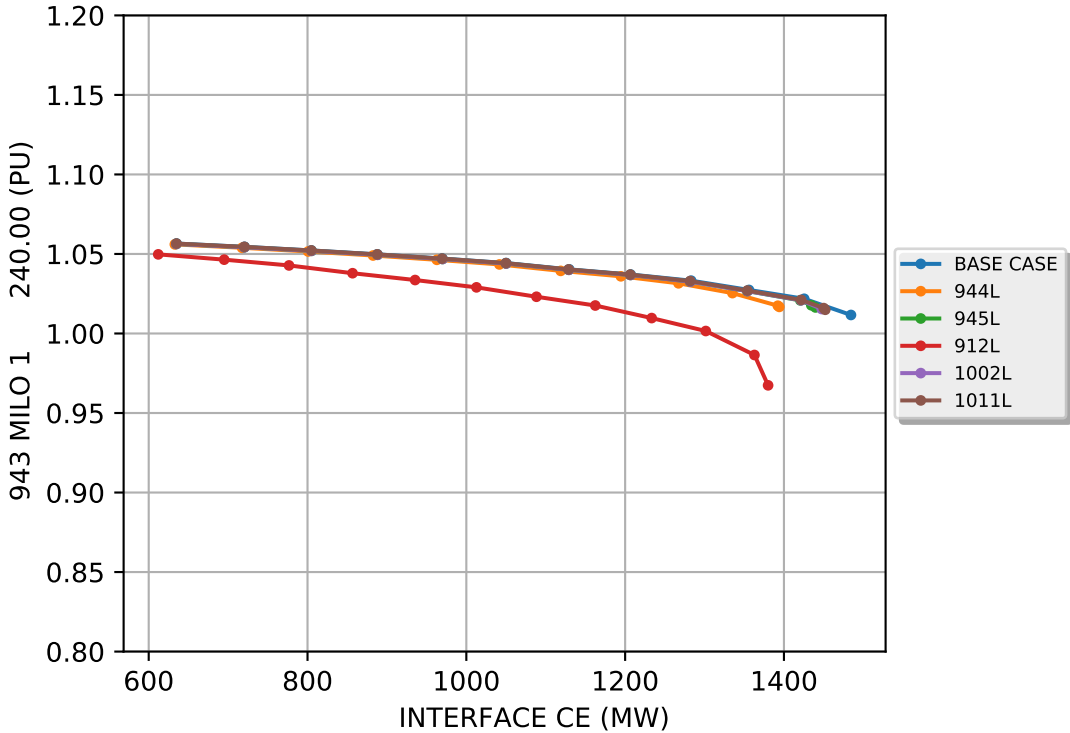


Figure: E-1-74

Case: M8, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 35.6%

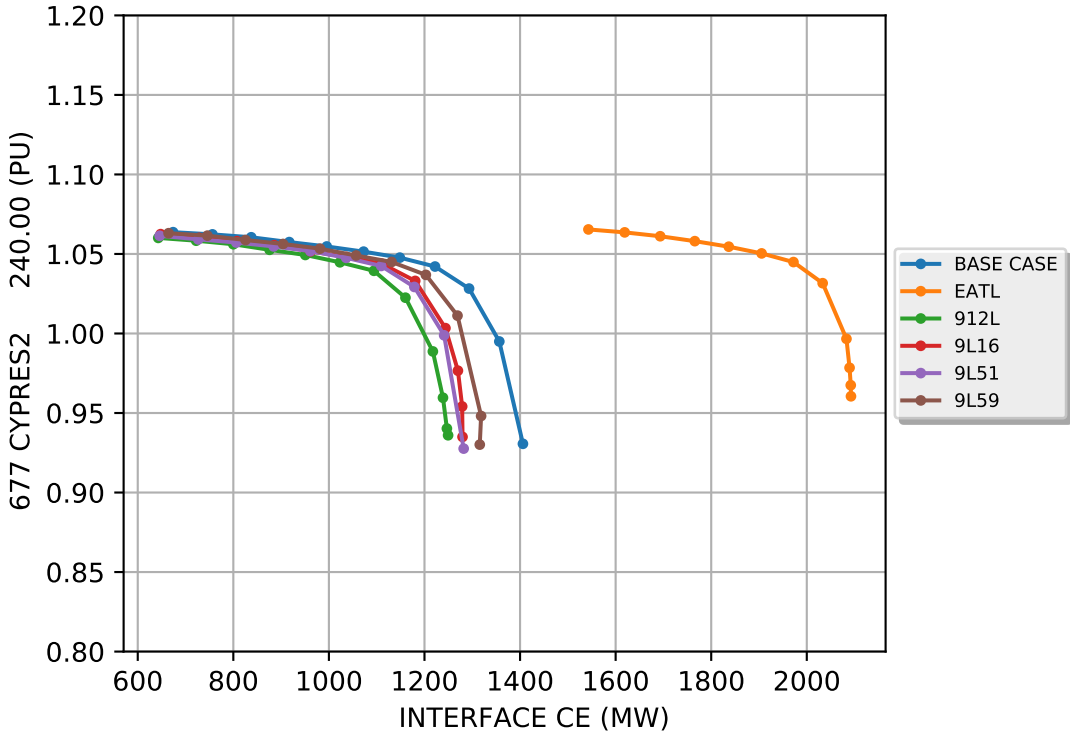


Figure: E-1-75

Case: M8, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 35.6%

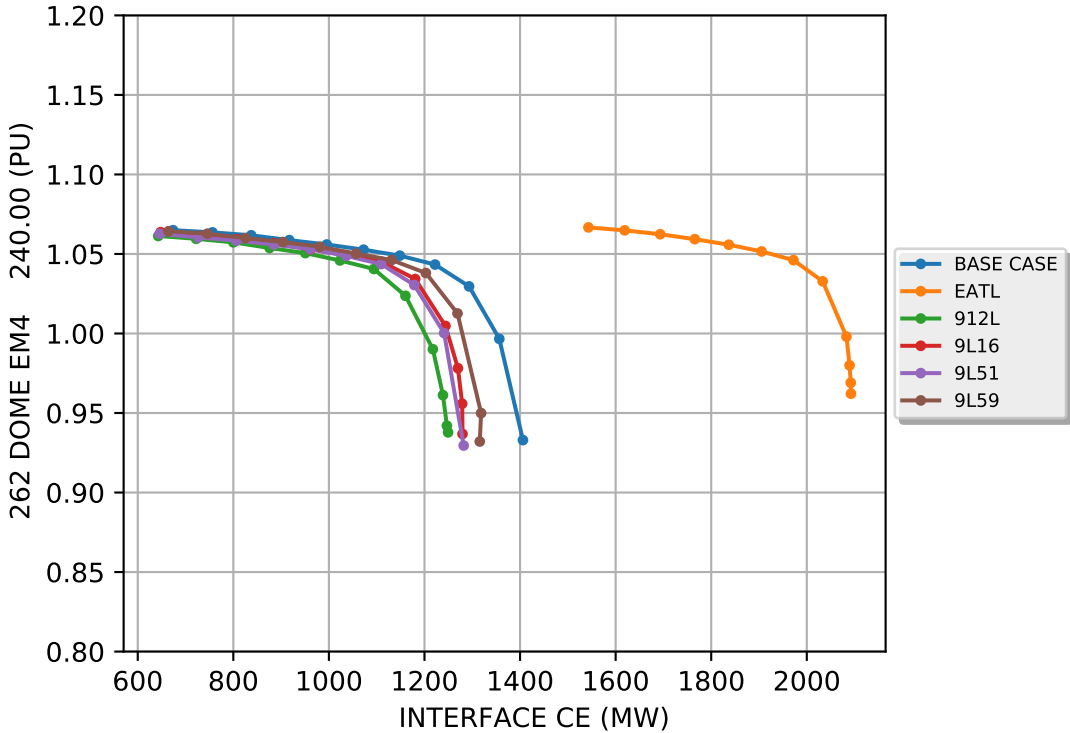


Figure: E-1-76

Case: M8, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 35.6%

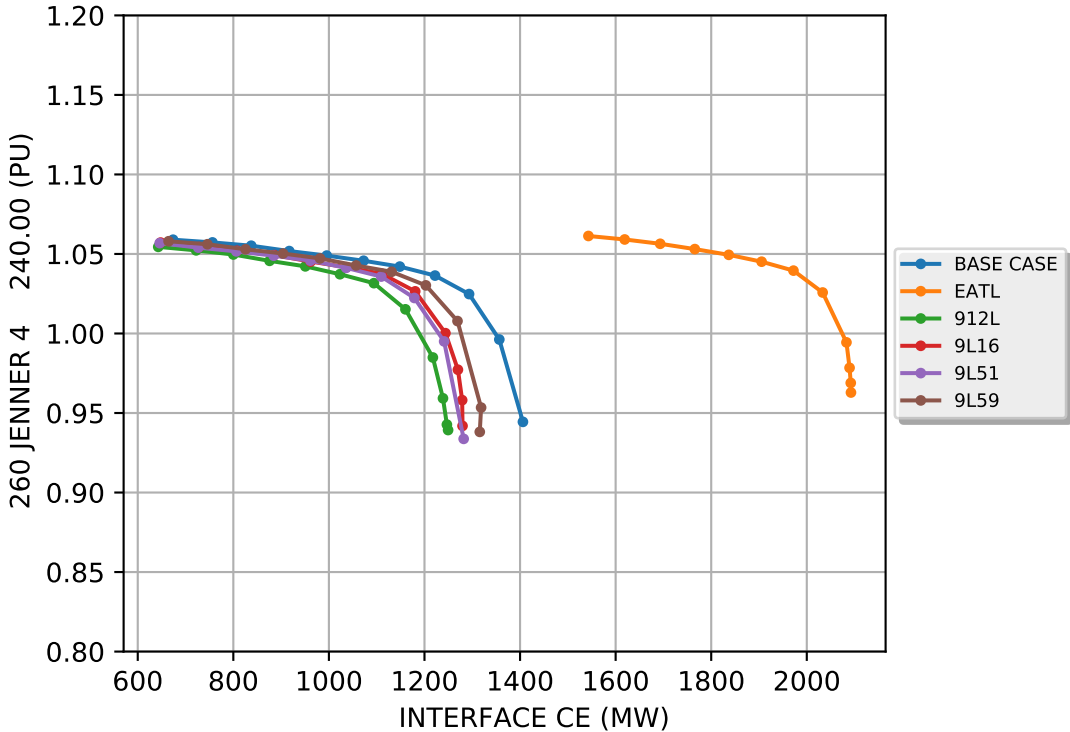


Figure: E-1-77

Case: M8, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 35.6%

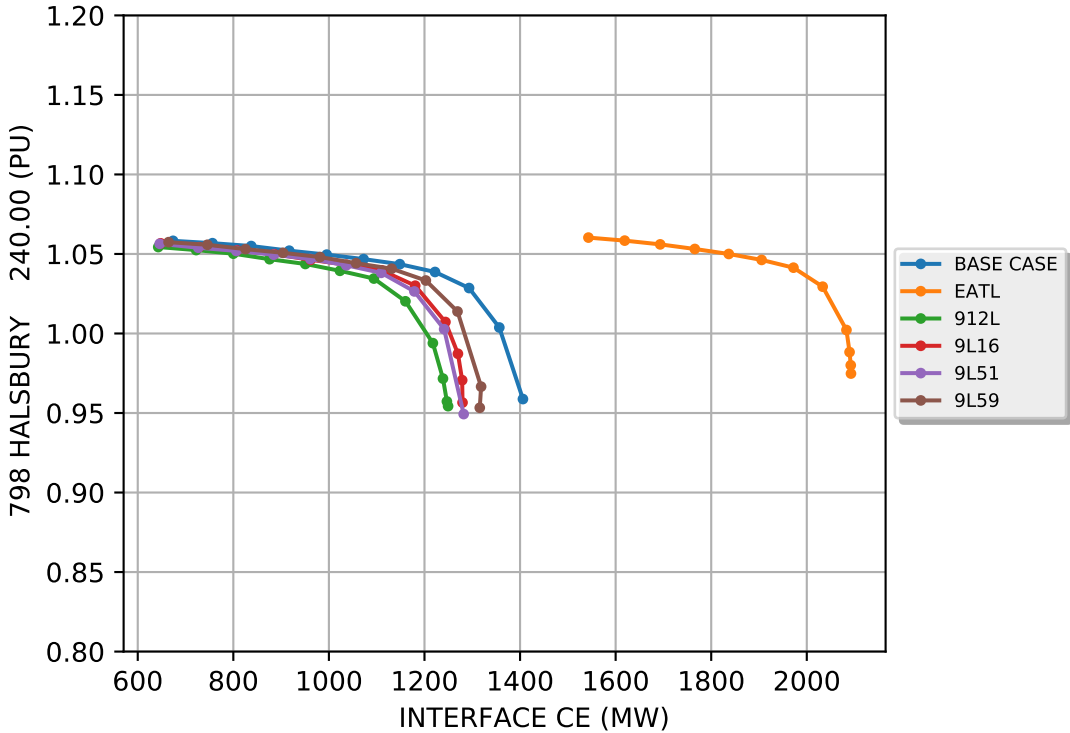


Figure: E-1-78

Case: M8, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 35.6%

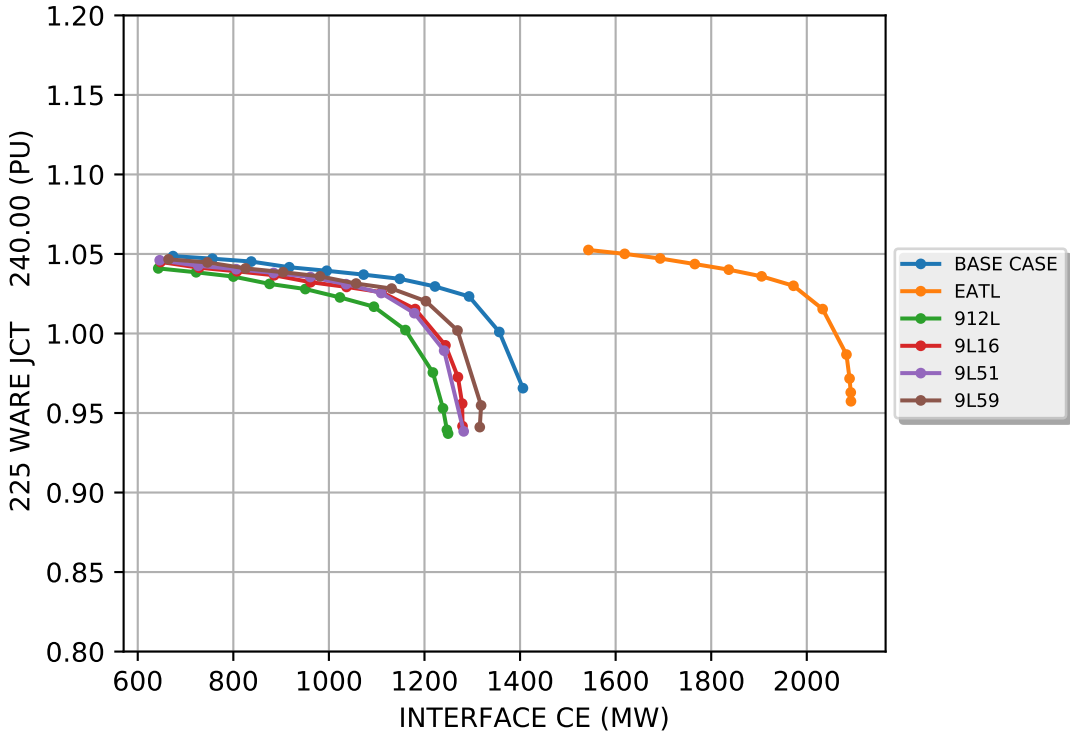


Figure: E-1-79

Case: M8, Option: PRE

Min Voltage: 0.91 PU, Min Margin: 35.6%

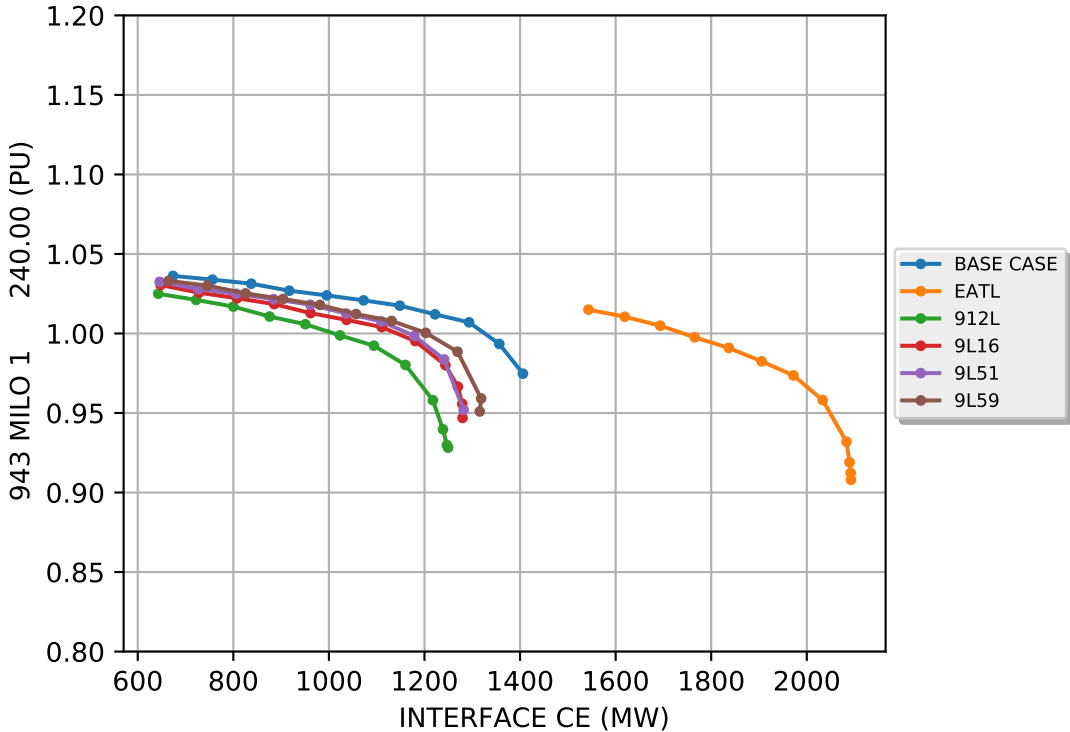


Figure: E-1-80

Case: M8, Option: PRE

Min Voltage: 0.91 PU, Min Margin: 35.6%

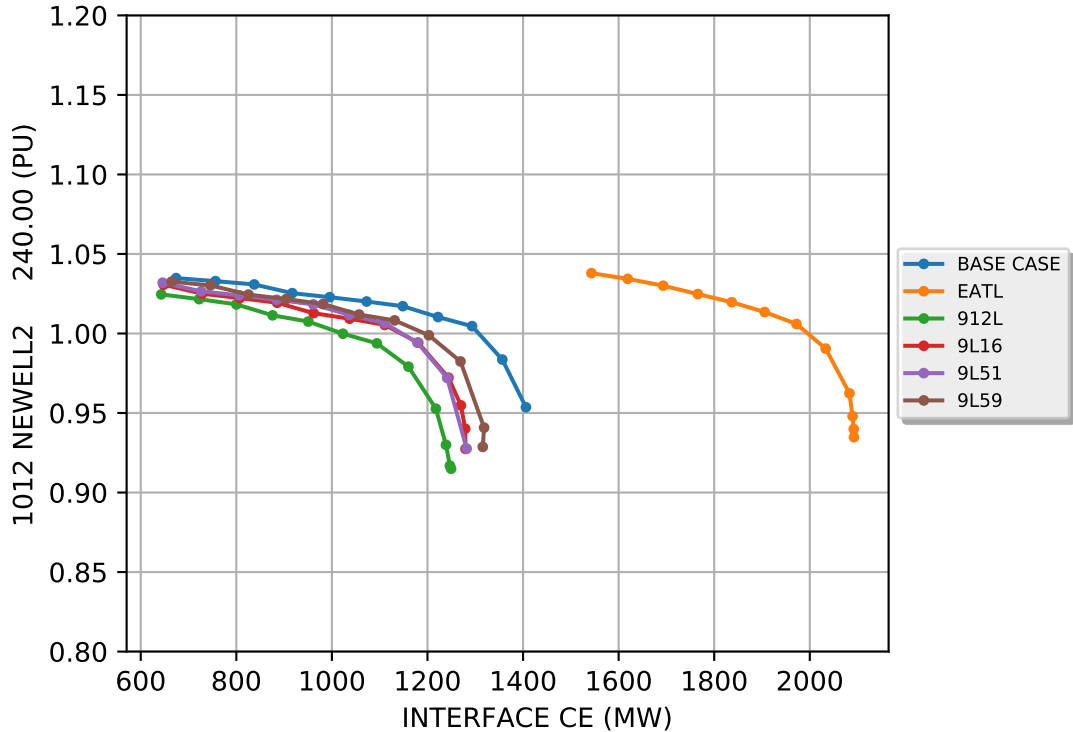


Figure: E-1-81

Case: M8, Option: PRE

Min Voltage: 0.92 PU, Min Margin: 35.6%

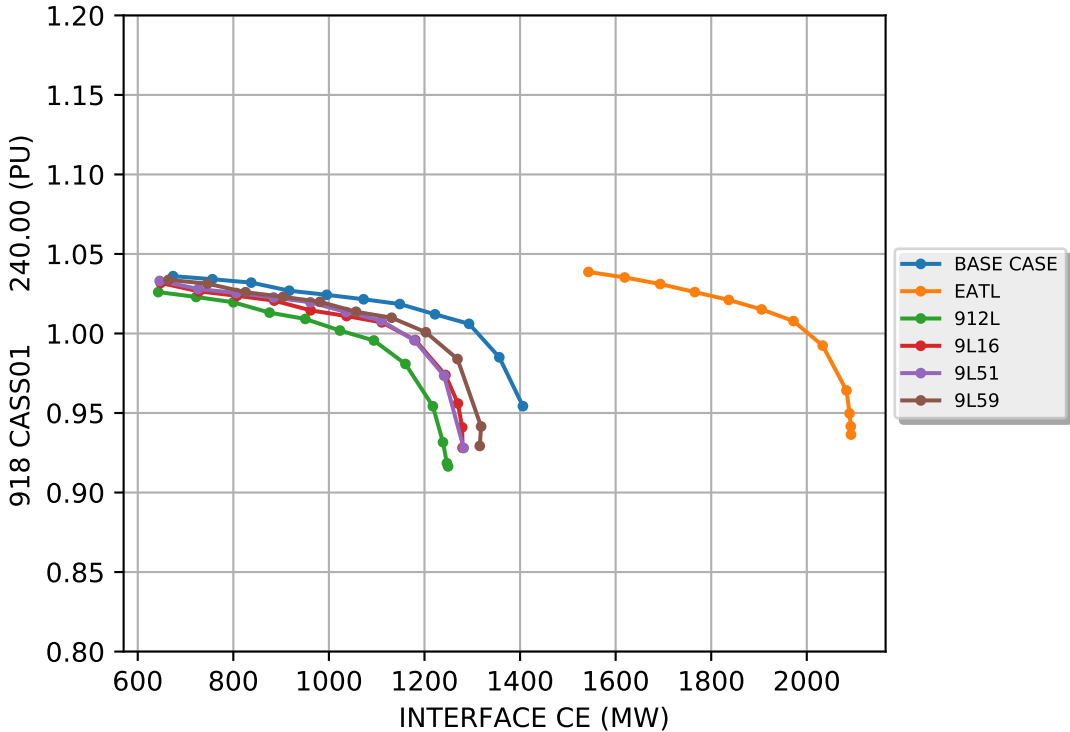


Figure: E-1-82

Case: M8, Option: PRE

Min Voltage: 0.92 PU, Min Margin: 35.6%

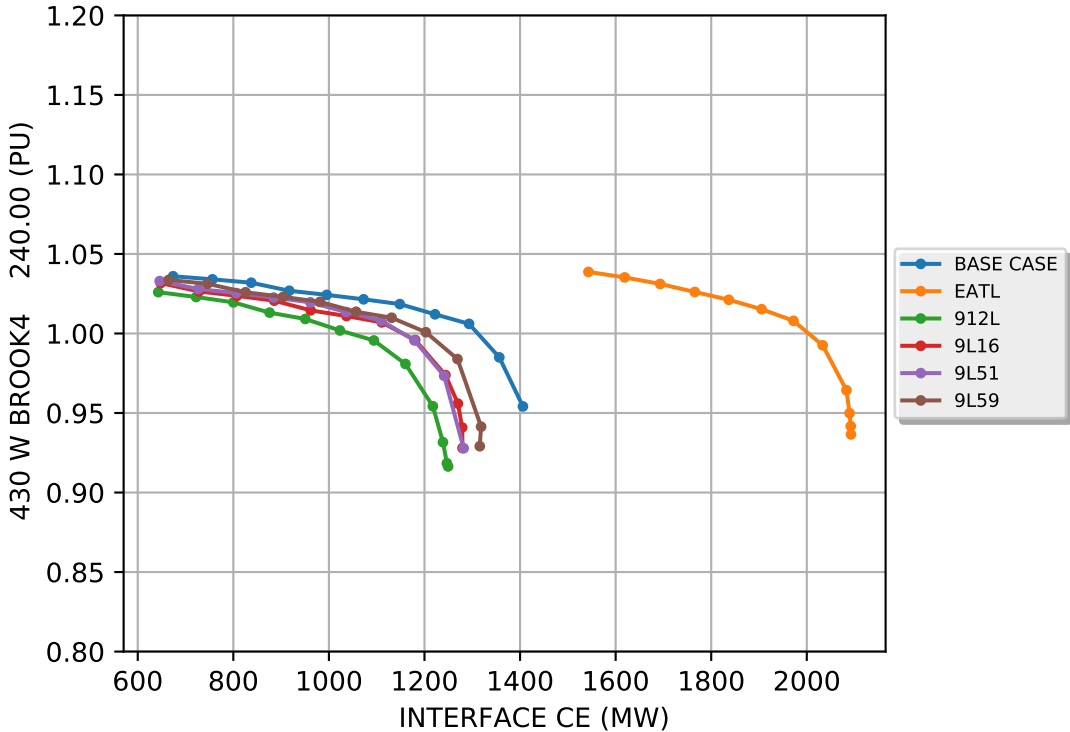


Figure: E-1-83

Case: M9, Option: PRE

Min Voltage: 0.92 PU, Min Margin: 39.1%

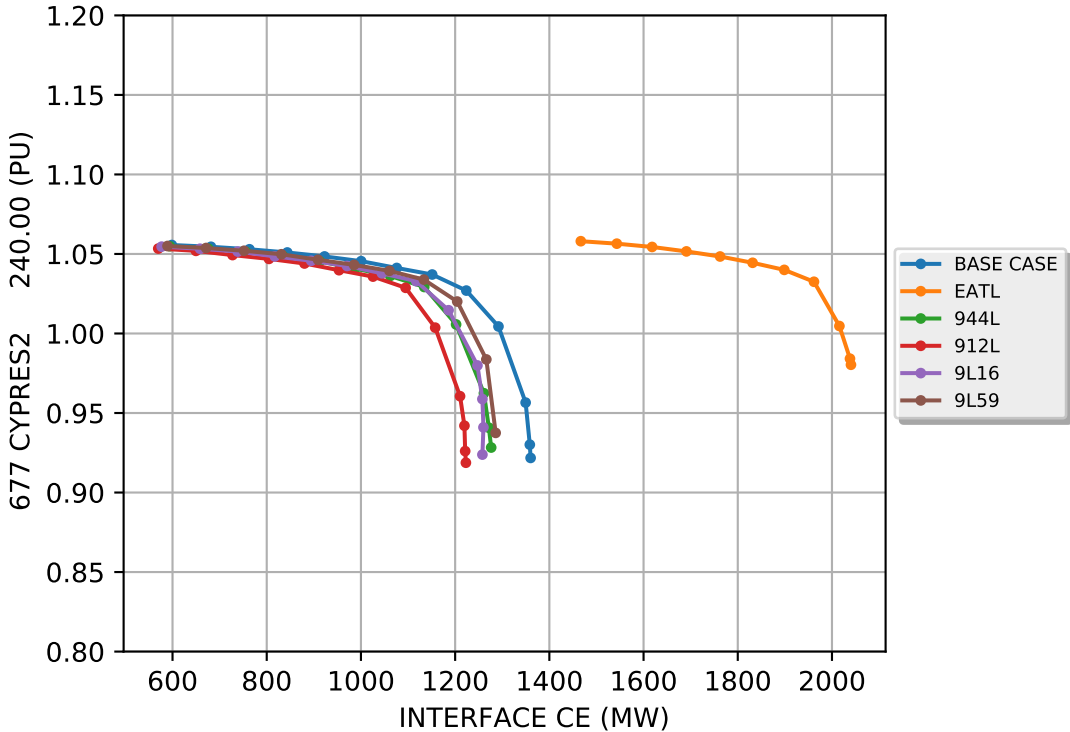


Figure: E-1-84

Case: M9, Option: PRE

Min Voltage: 0.92 PU, Min Margin: 39.1%

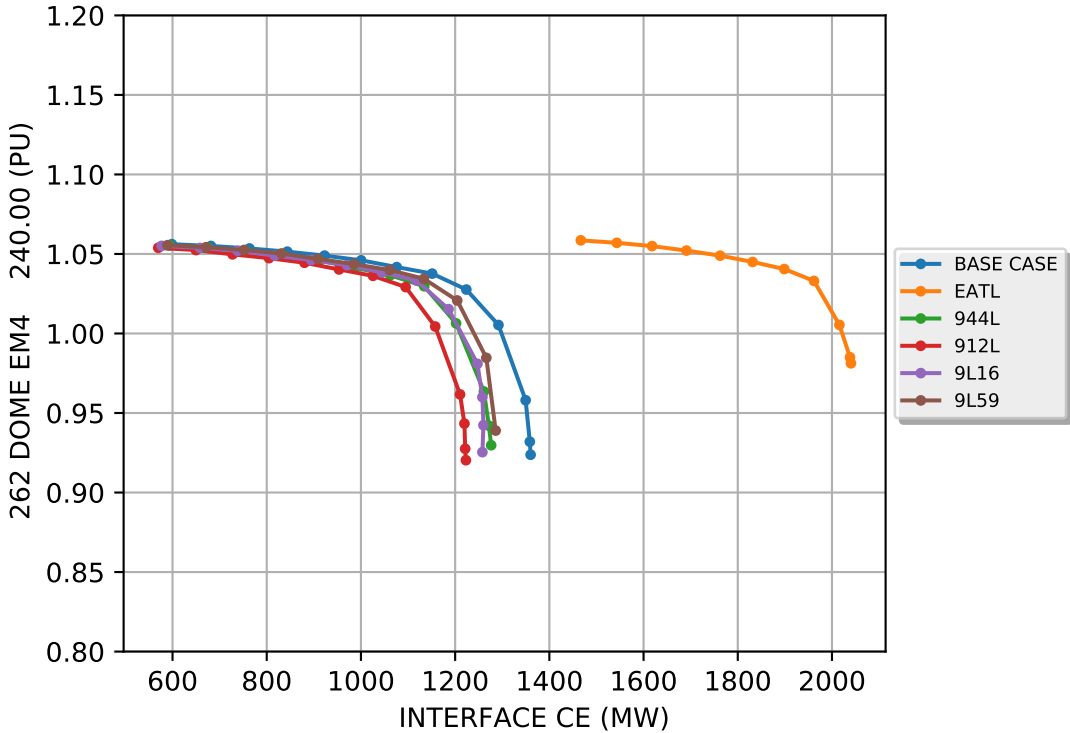


Figure: E-1-85

Case: M9, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 39.1%

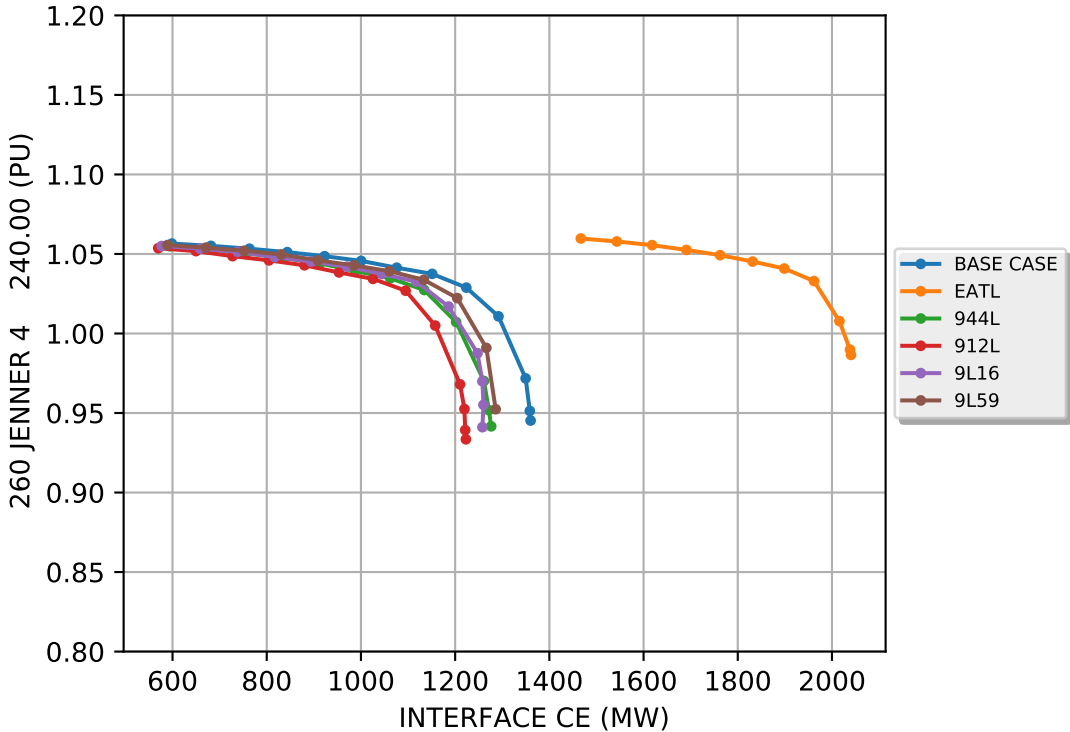


Figure: E-1-86

Case: M9, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 39.1%

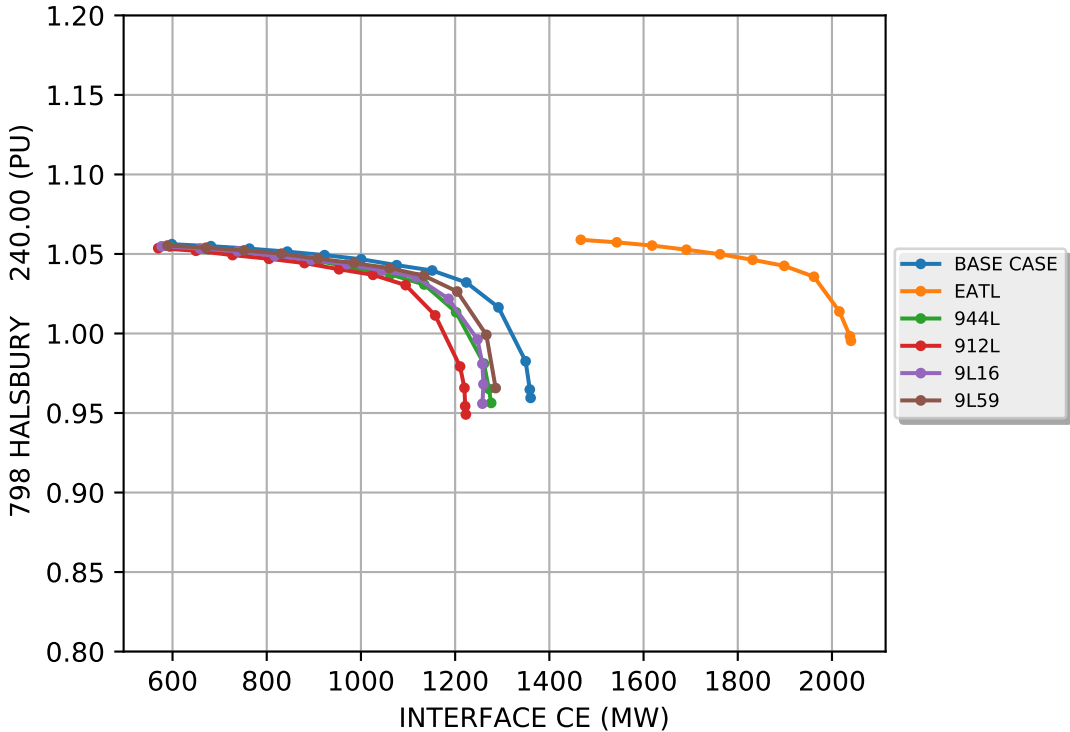


Figure: E-1-87

Case: M9, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 39.1%

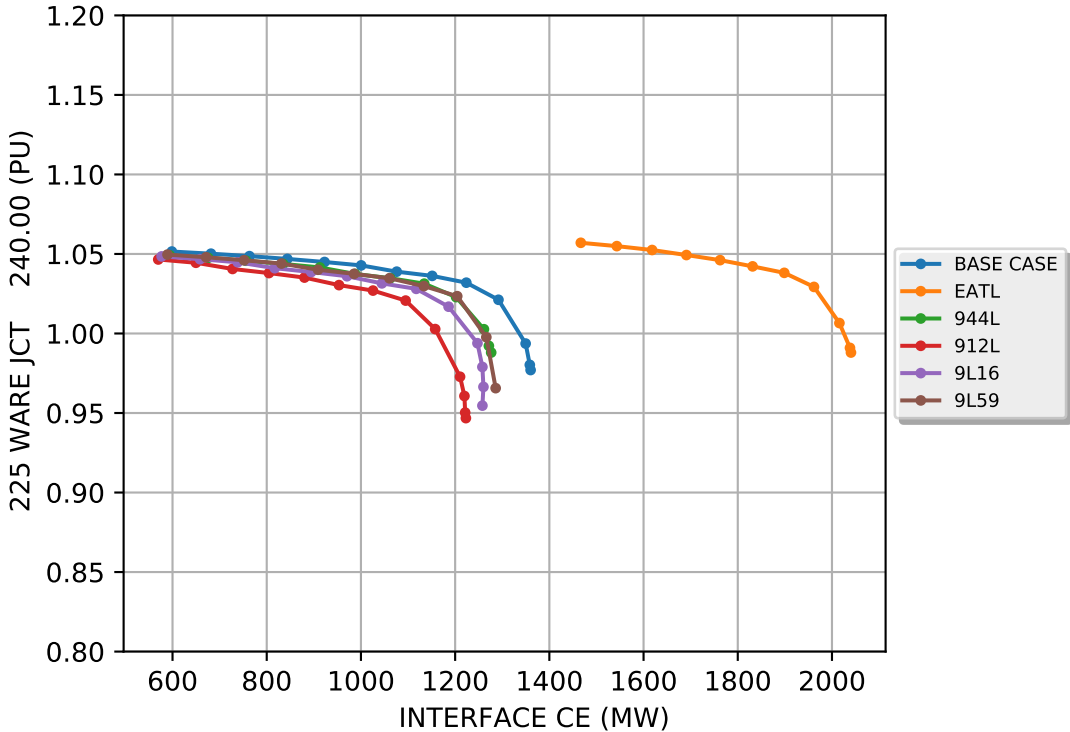


Figure: E-1-88

Case: M9, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 39.1%

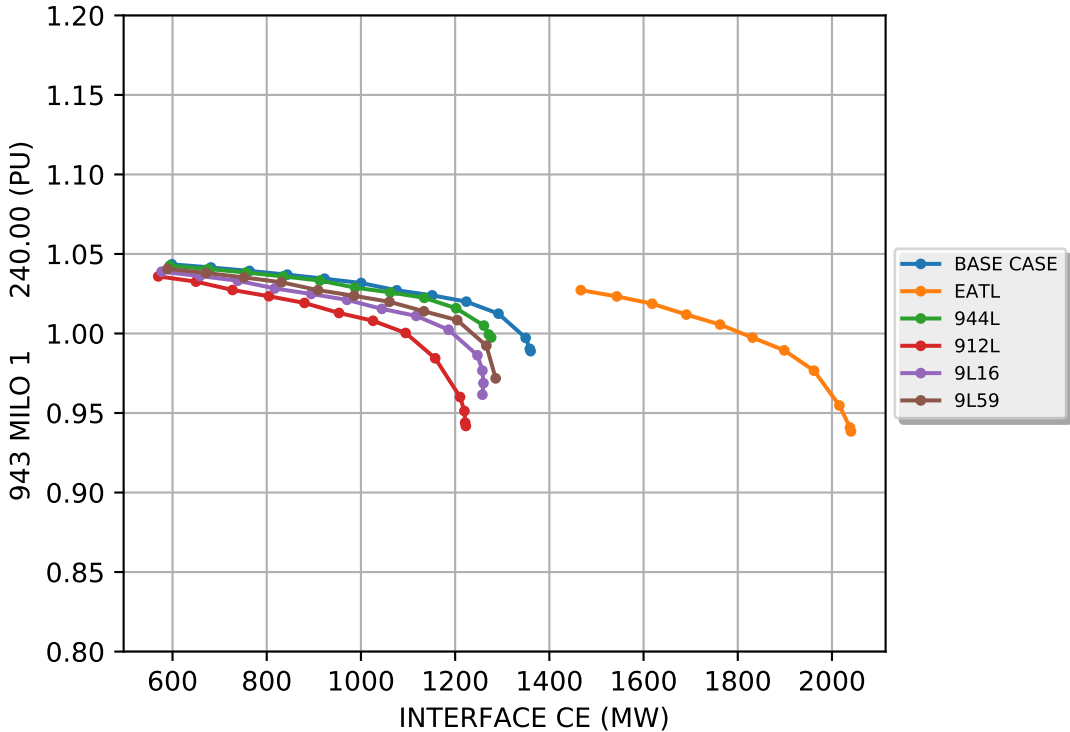


Figure: E-1-89

Case: M9, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 39.1%

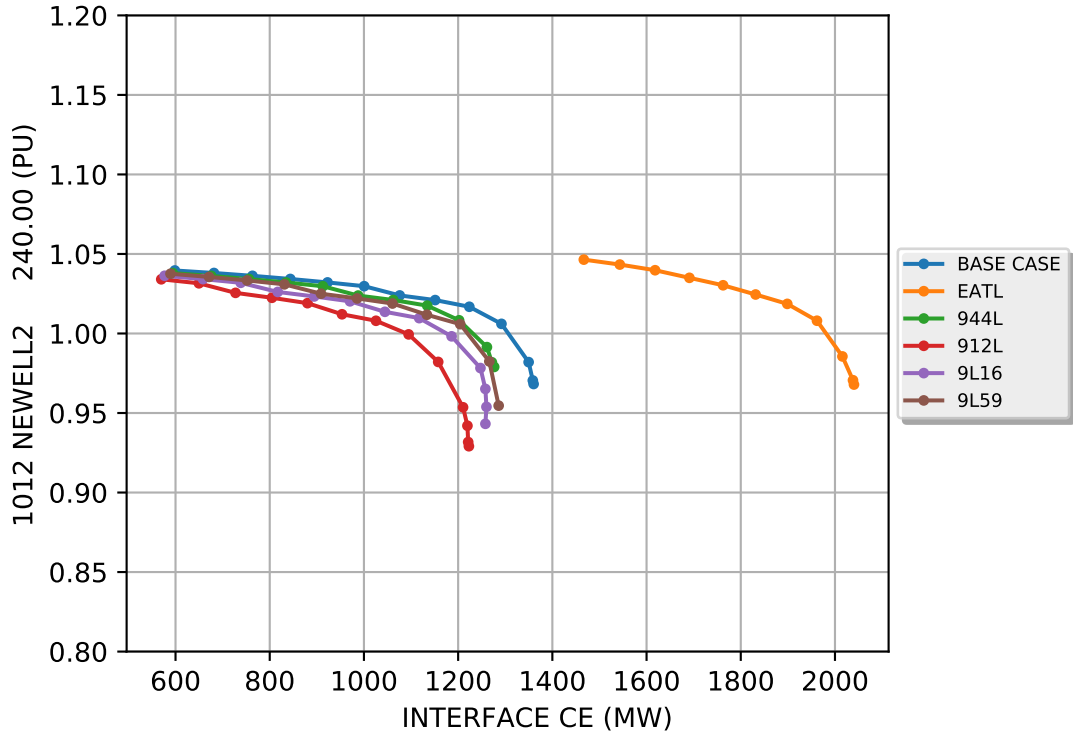


Figure: E-1-90

Case: M9, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 39.1%

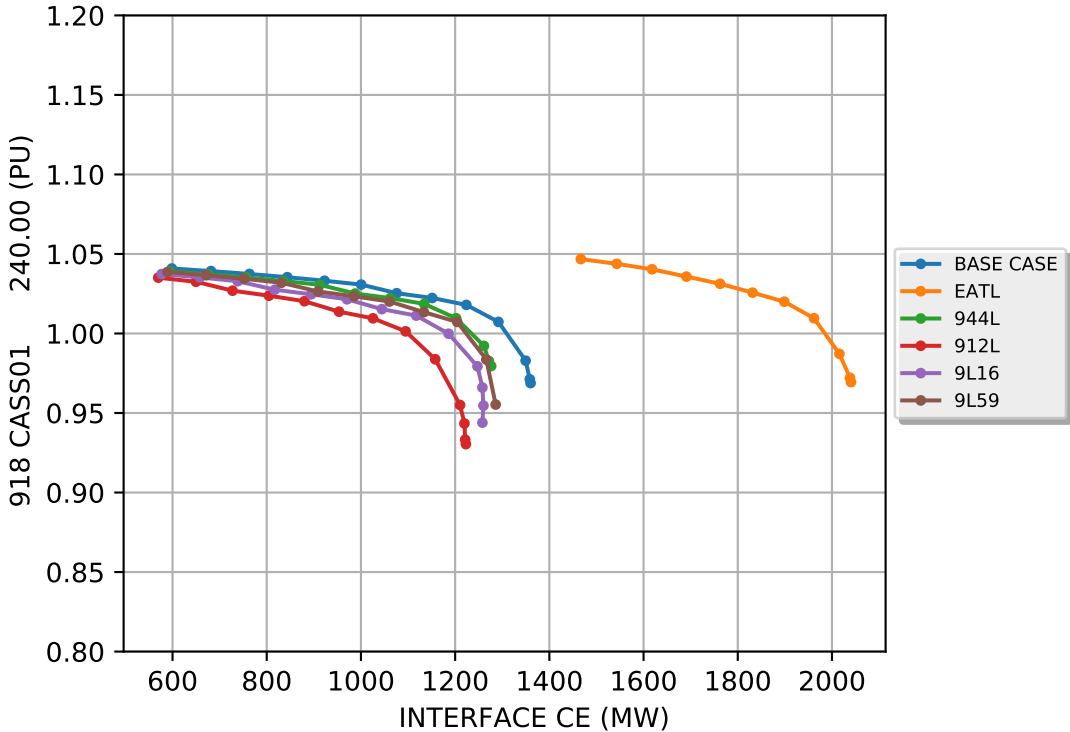


Figure: E-1-91

Case: M7, Option: PRE

Min Voltage: 0.92 PU, Min Margin: 92.1%

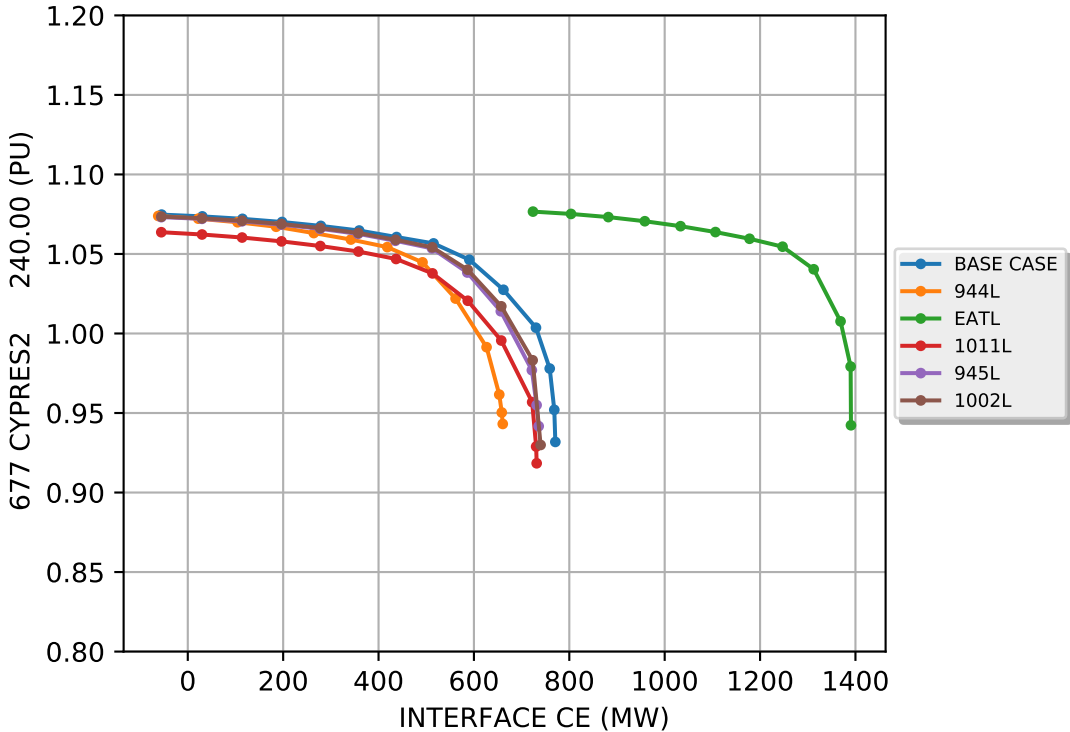


Figure: E-1-92

Case: M7, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 92.1%

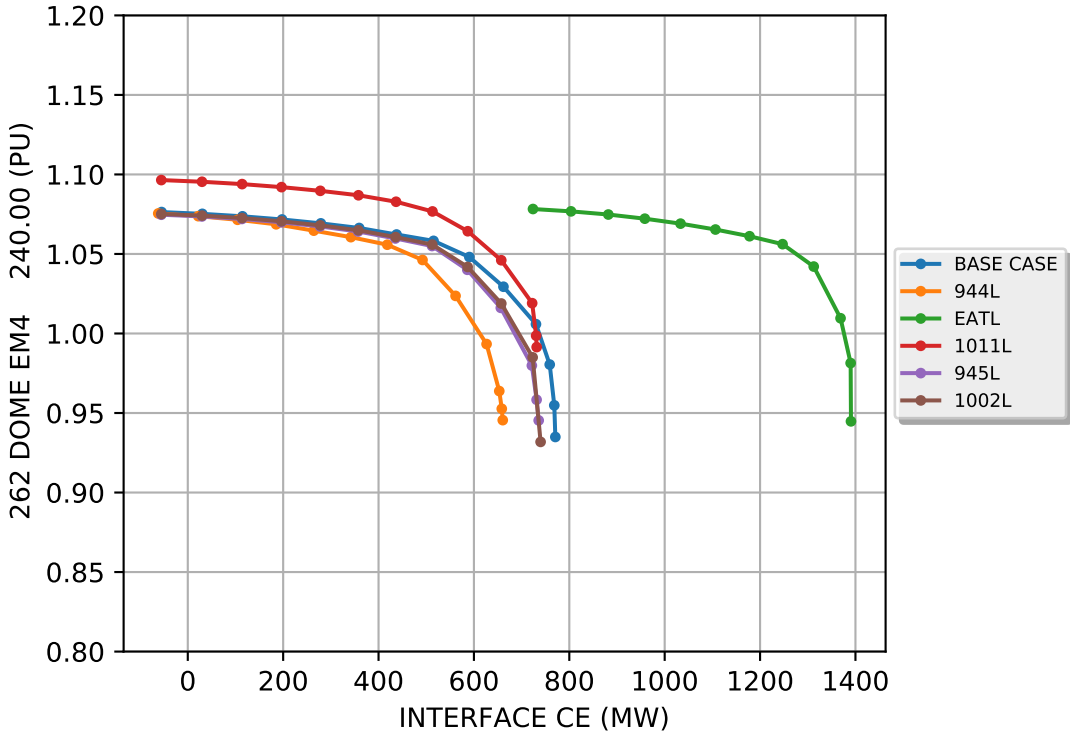


Figure: E-1-93

Case: M7, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 92.1%

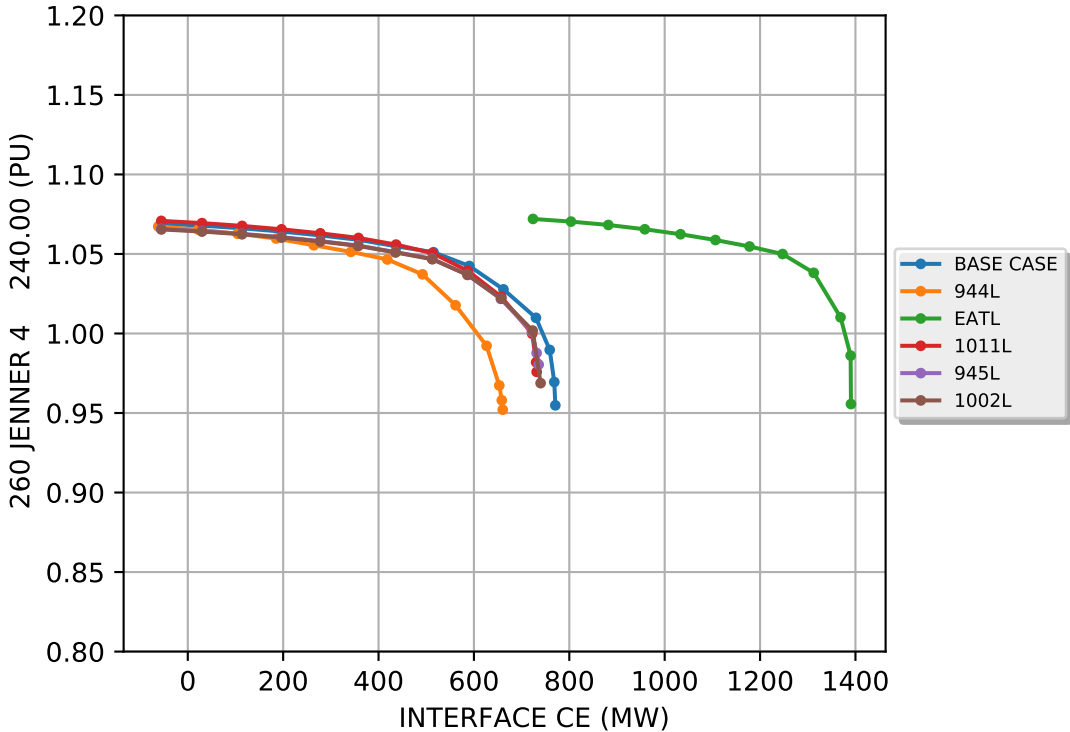


Figure: E-1-94

Case: M7, Option: PRE

Min Voltage: 0.97 PU, Min Margin: 92.1%

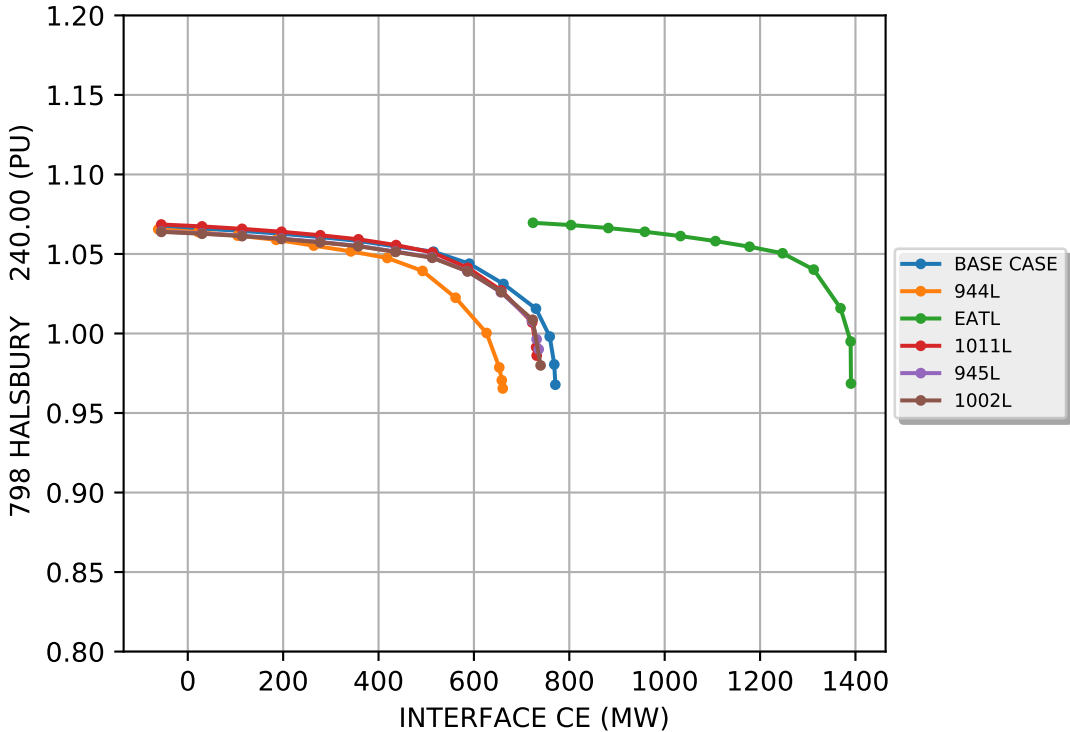


Figure: E-1-95

Case: M7, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 92.1%

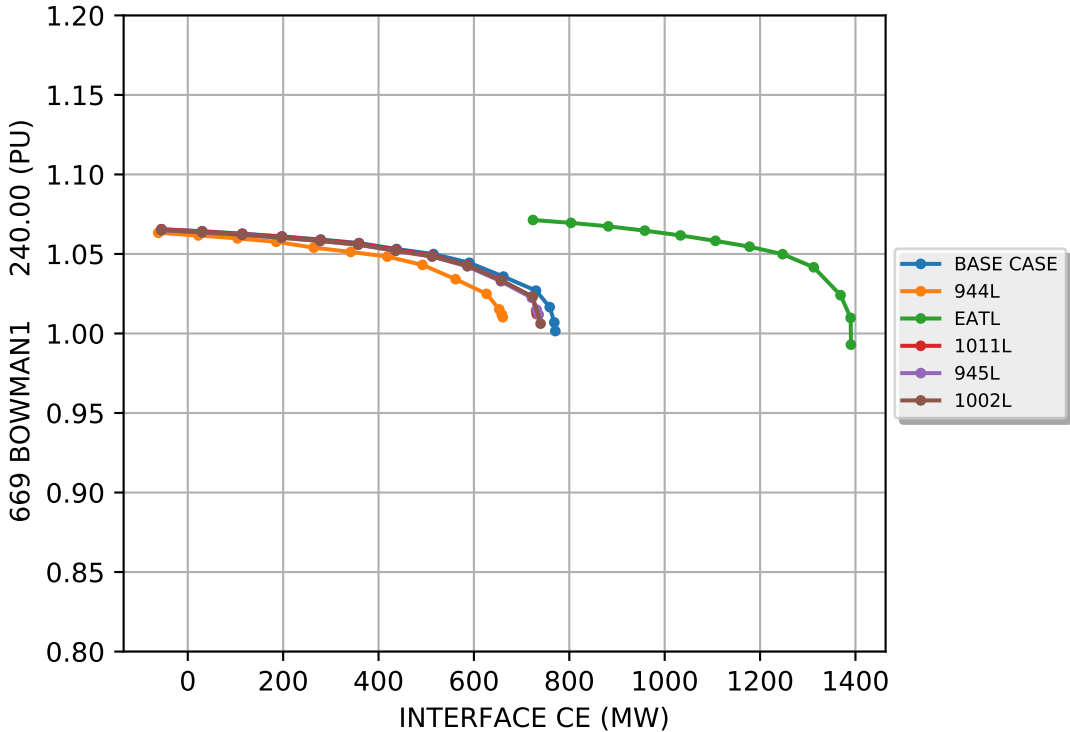


Figure: E-1-96

Case: M7, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 92.1%

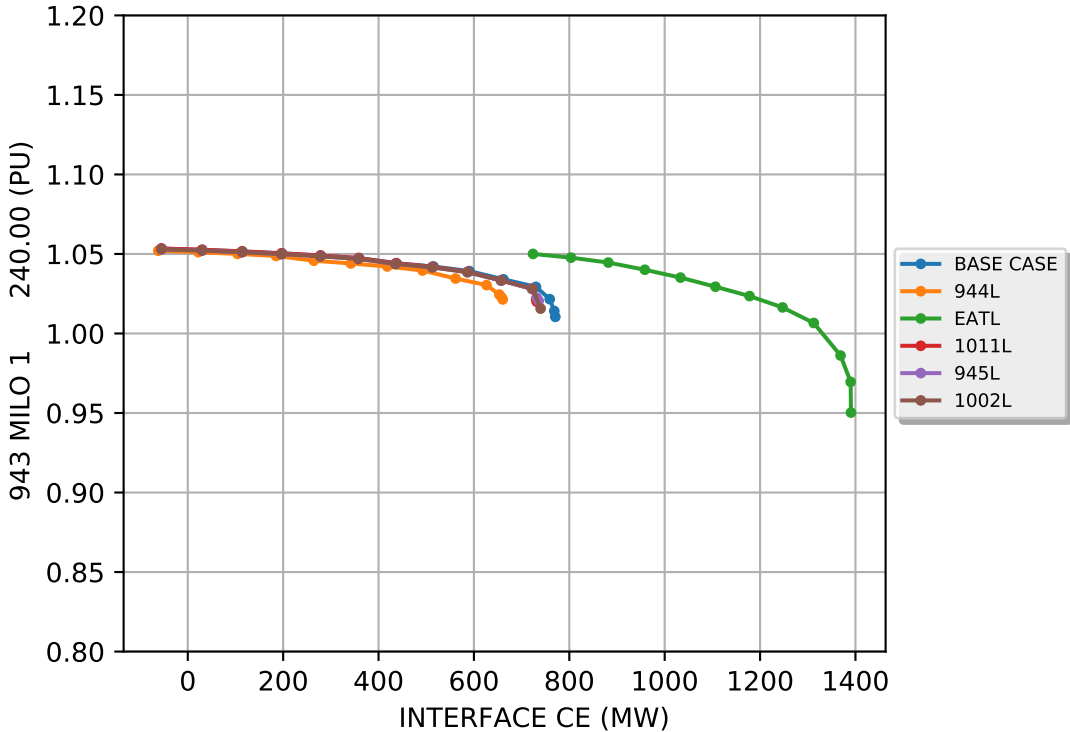


Figure: E-1-97

Case: M6, Option: PRE

Min Voltage: 0.92 PU, Min Margin: 61.1%

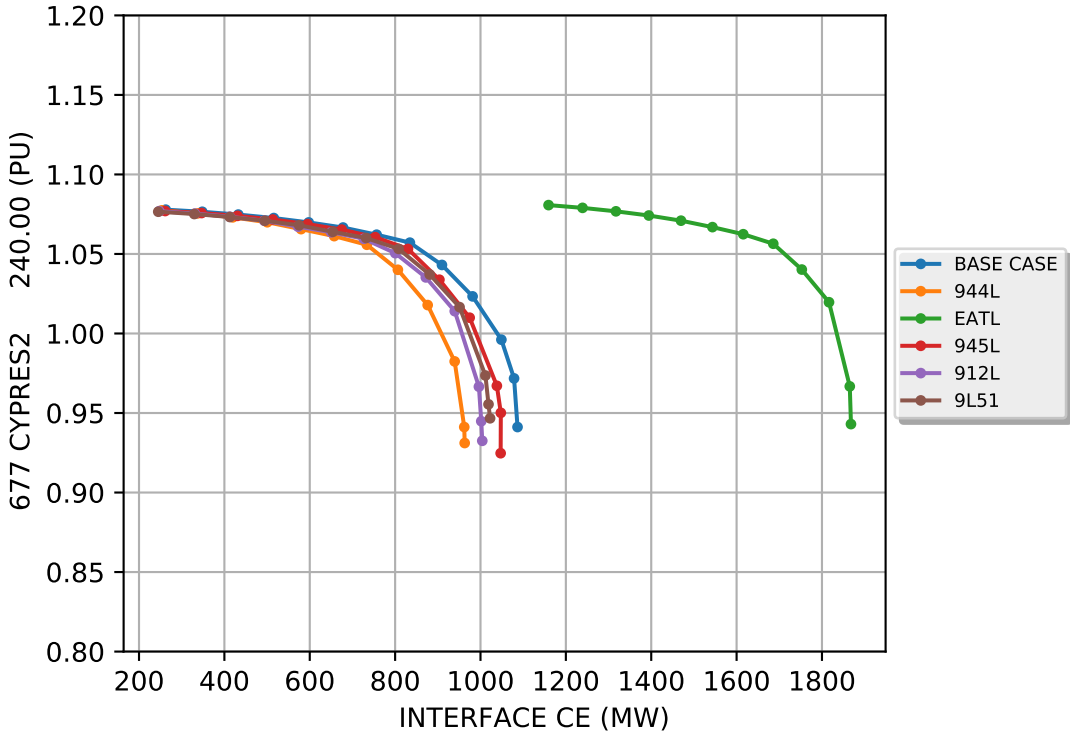


Figure: E-1-98

Case: M6, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 61.1%

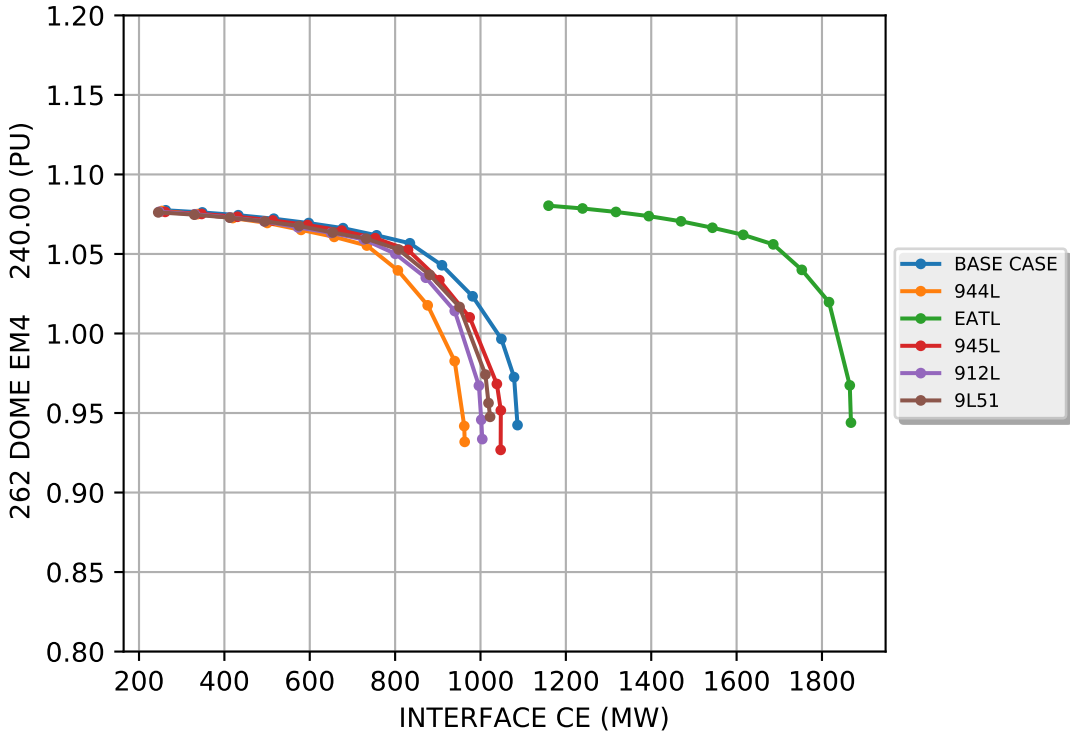


Figure: E-1-99

Case: M6, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 61.1%

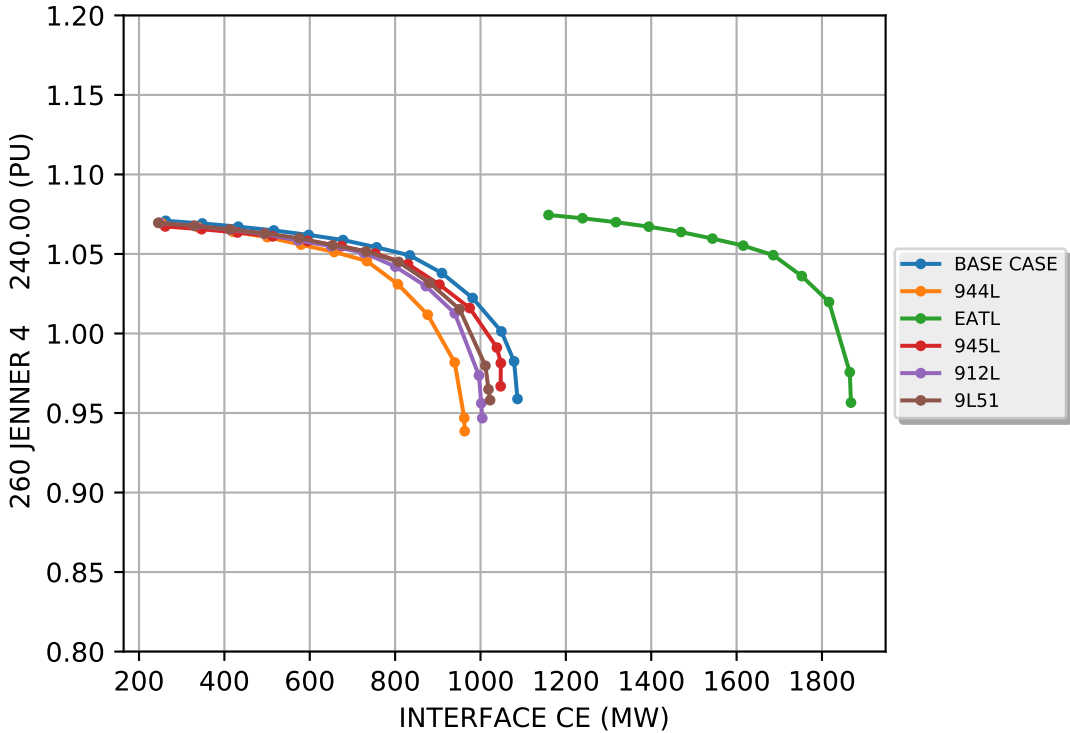


Figure: E-1-100

Case: M6, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 61.1%

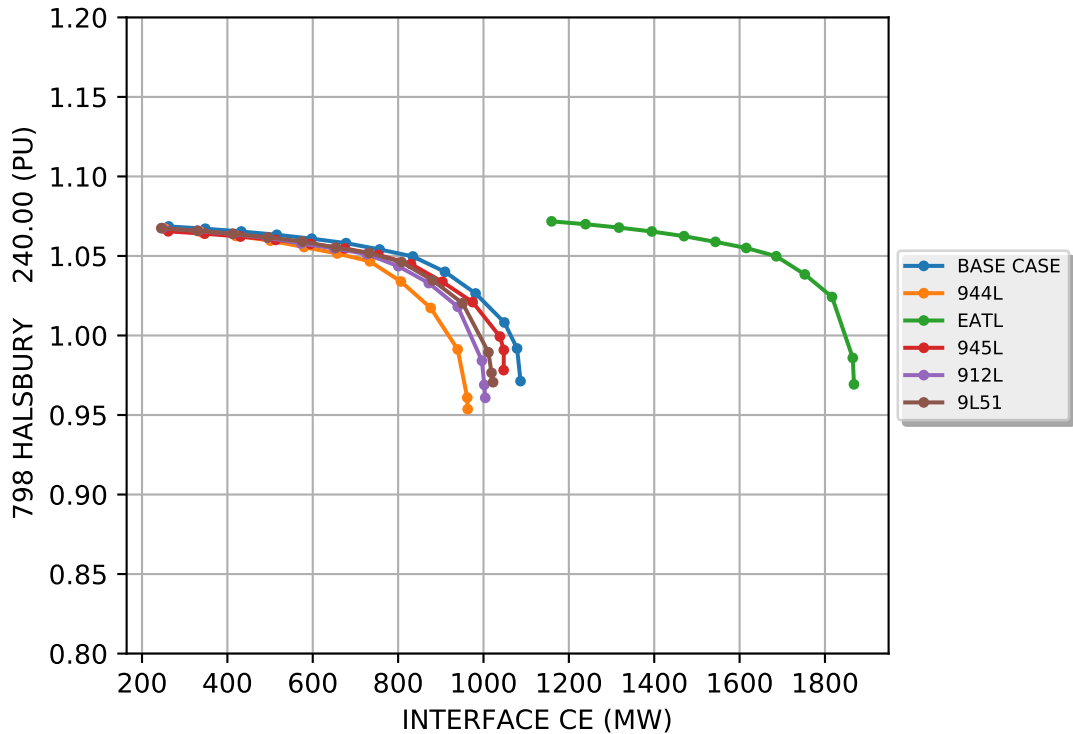


Figure: E-1-101

Case: M6, Option: PRE

Min Voltage: 0.98 PU, Min Margin: 61.1%

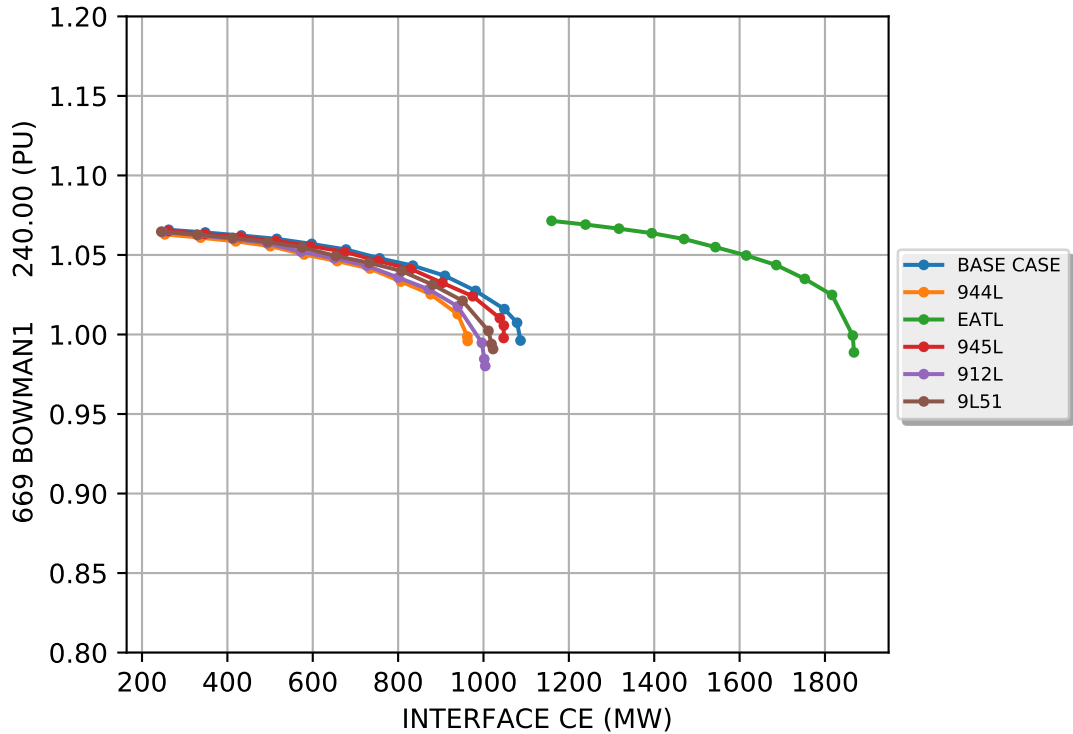


Figure: E-1-102

Case: M6, Option: PRE

Min Voltage: 0.97 PU, Min Margin: 61.1%

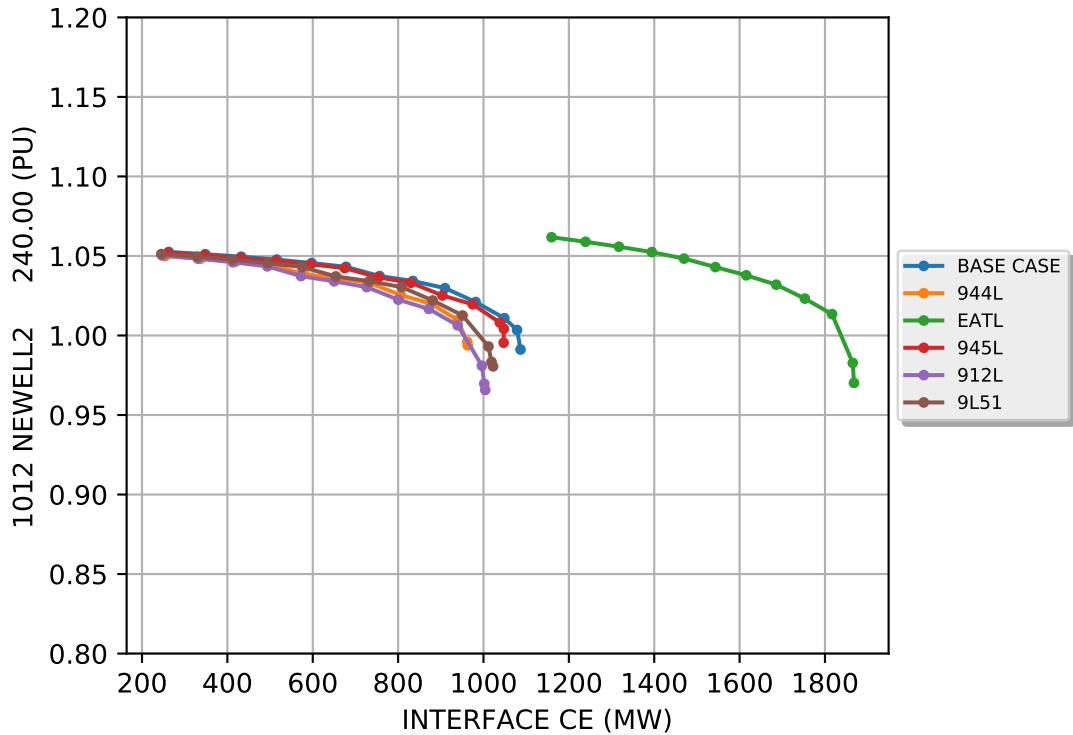


Figure: E-1-103

Case: M6, Option: PRE

Min Voltage: 0.97 PU, Min Margin: 61.1%

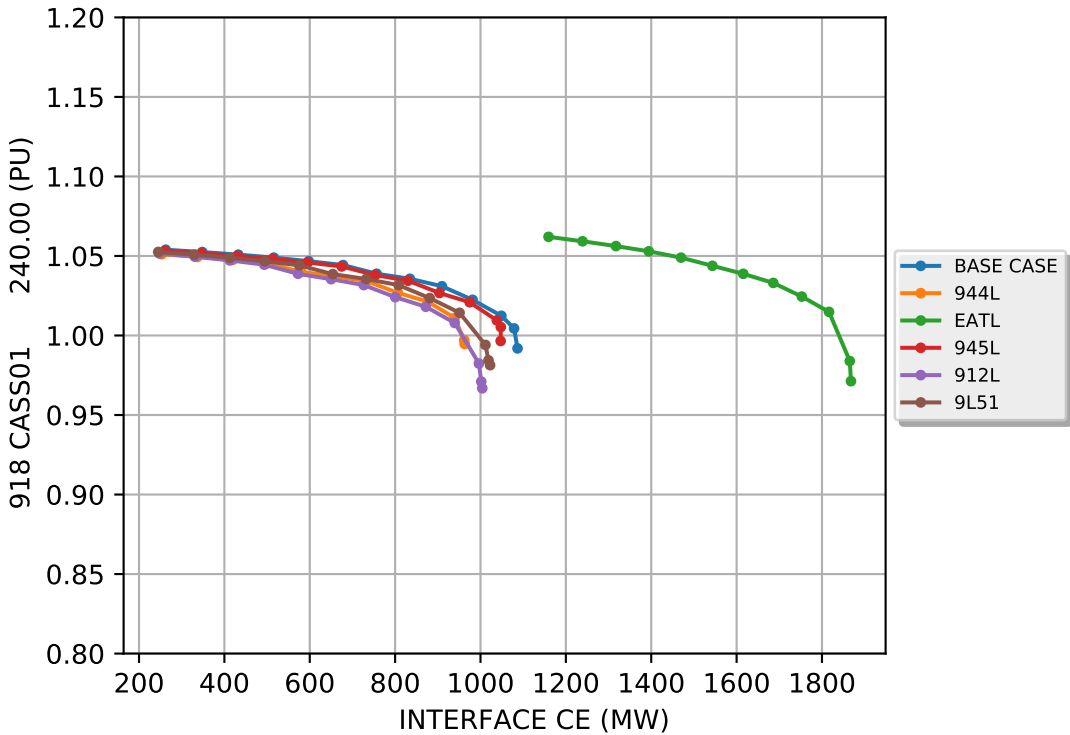


Figure: E-1-104

Case: M4, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 36.1%

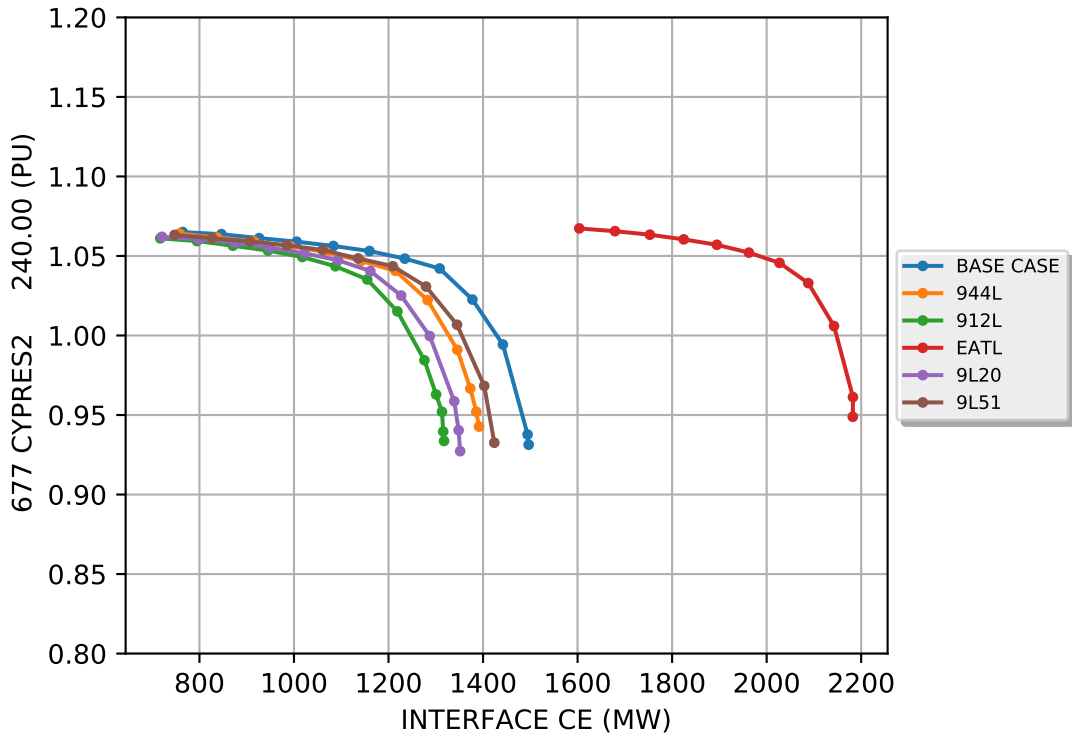


Figure: E-1-105

Case: M4, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 36.1%

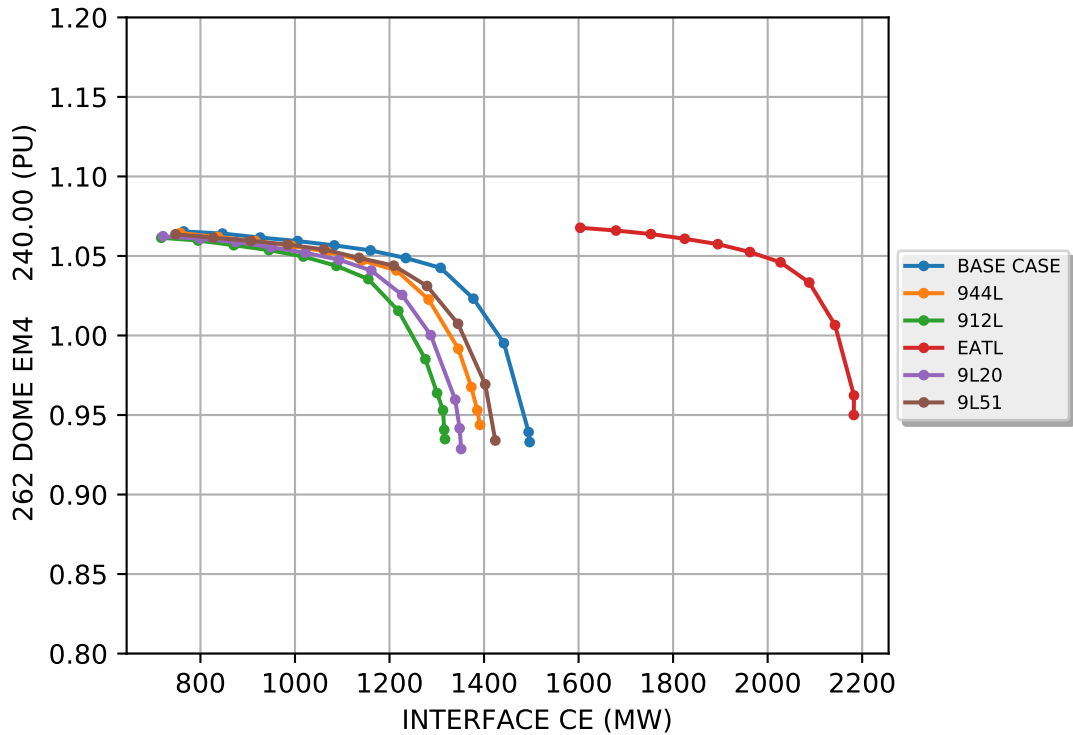


Figure: E-1-106

Case: M4, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 36.1%

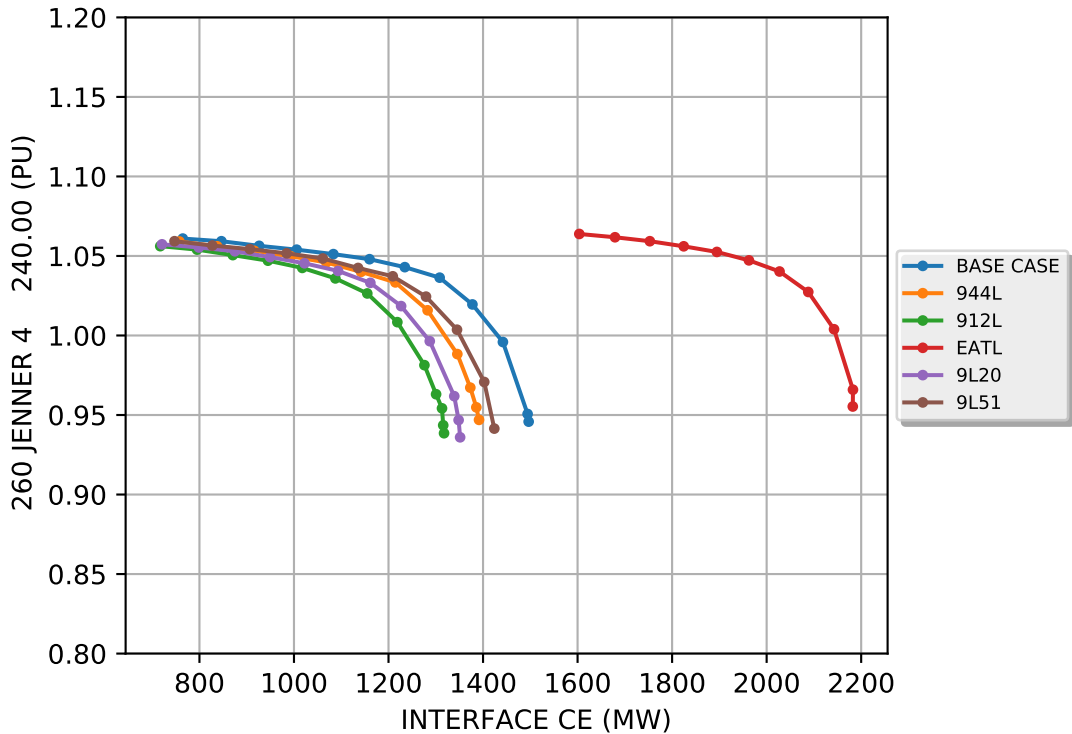


Figure: E-1-107

Case: M4, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 36.1%

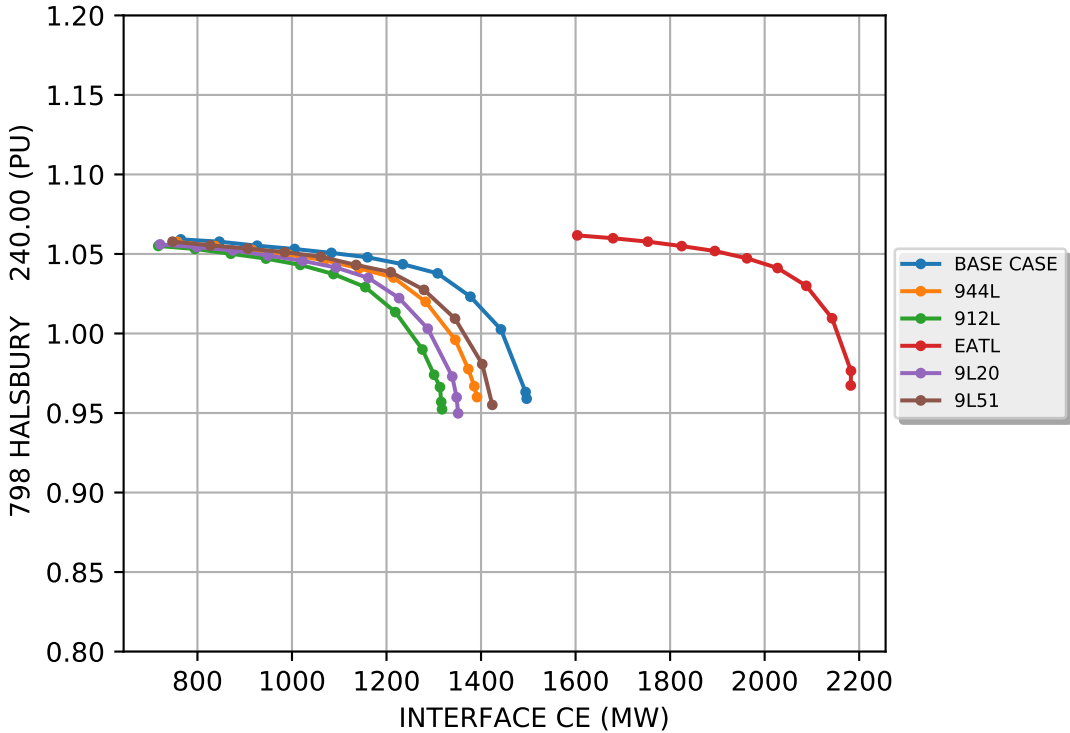


Figure: E-1-108

Case: M4, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 36.1%

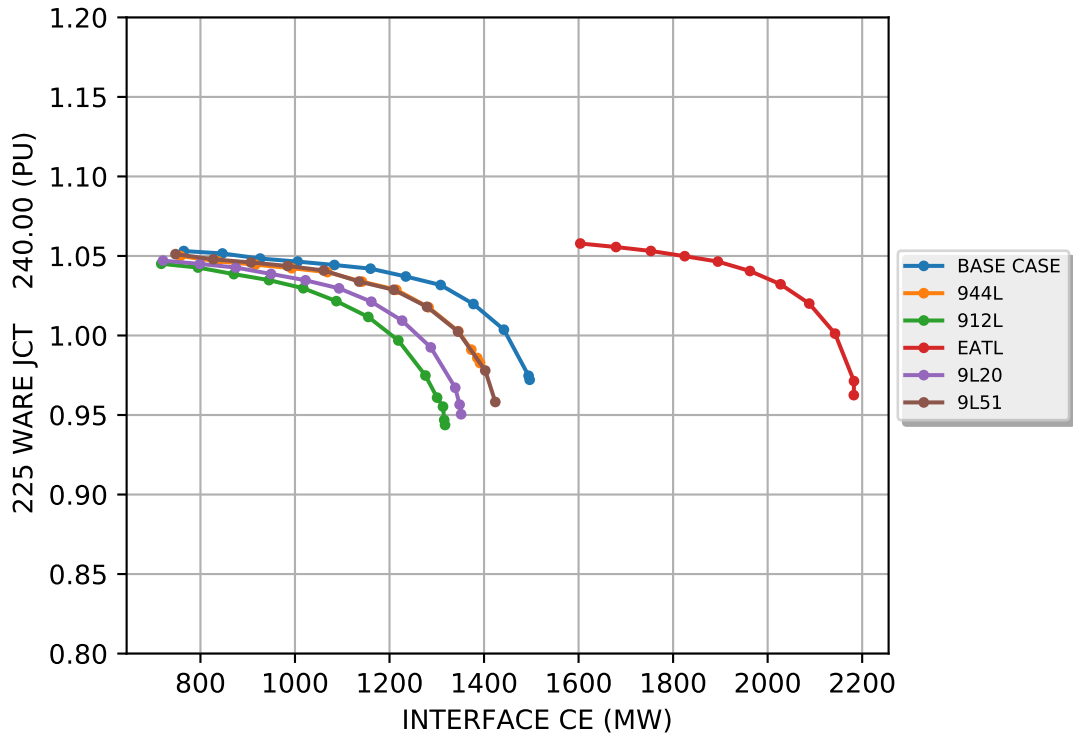


Figure: E-1-109

Case: M4, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 36.1%

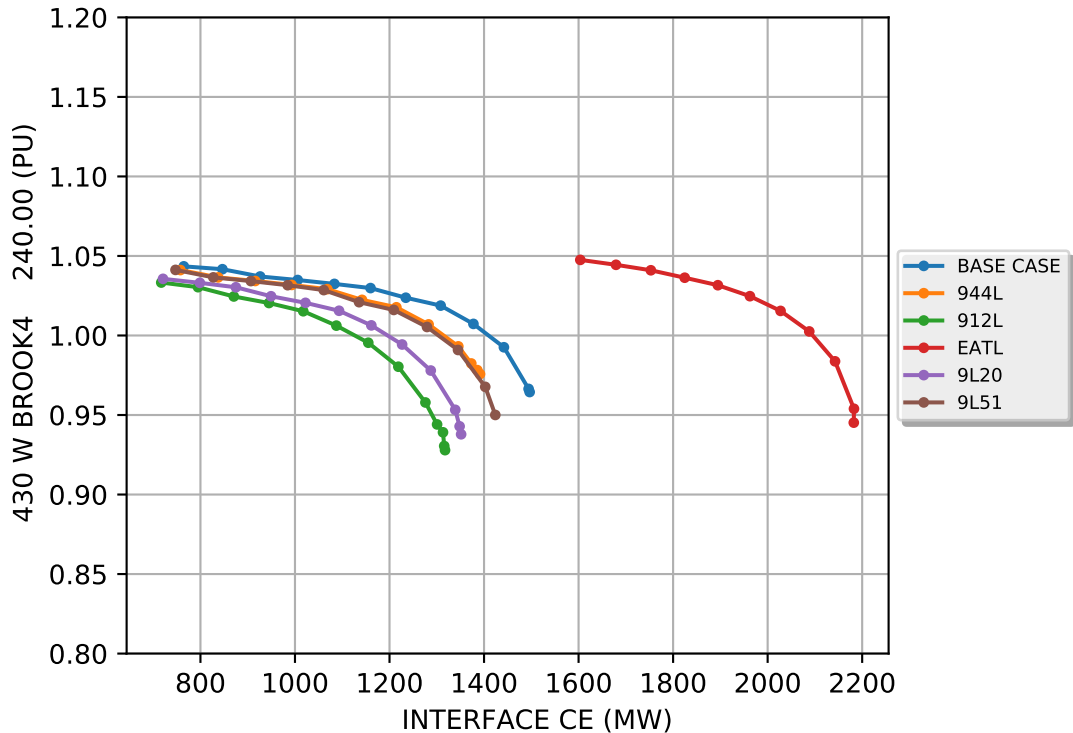


Figure: E-1-110

Case: M4, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 36.1%

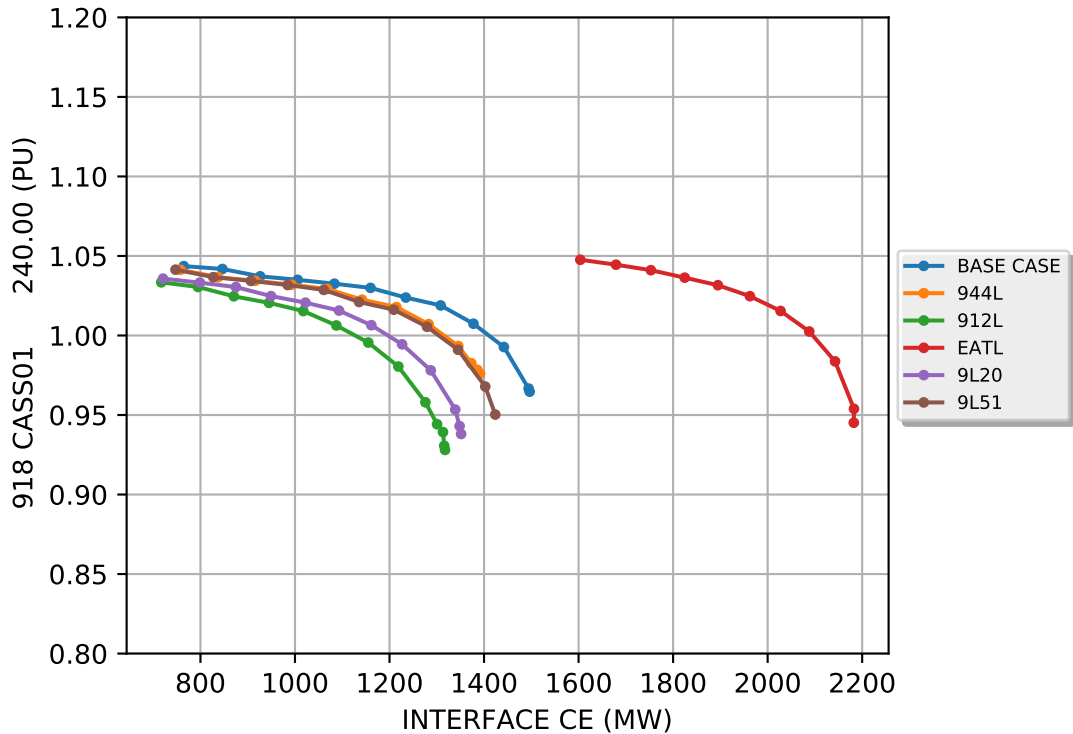


Figure: E-1-111

Case: M4, Option: PRE

Min Voltage: 0.91 PU, Min Margin: 36.1%

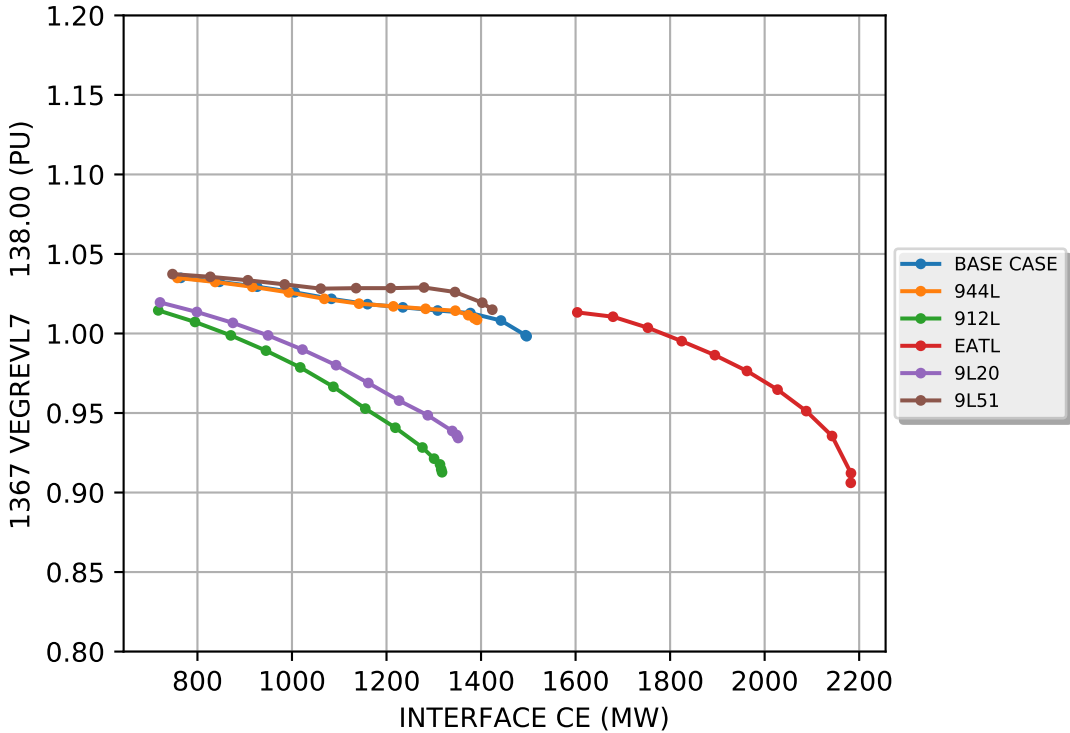


Figure: E-1-112

Case: M4, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 36.1%

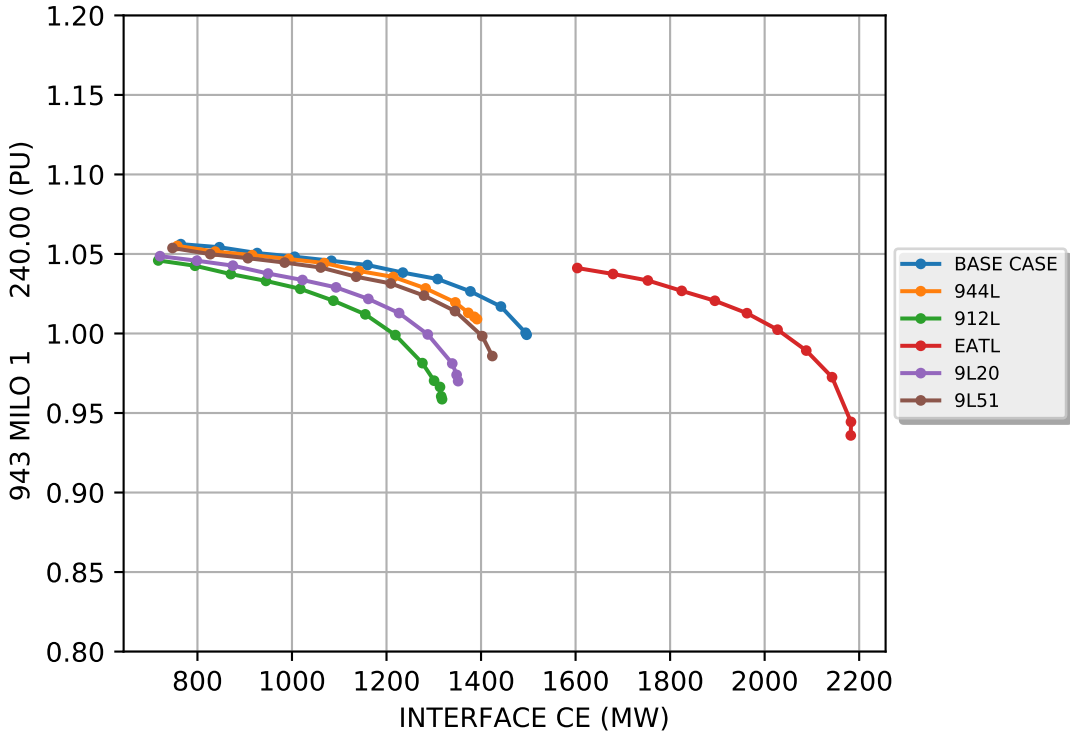


Figure: E-1-113

Case: H10, Option: PRE

Min Voltage: 1.02 PU, Min Margin: 55.6%

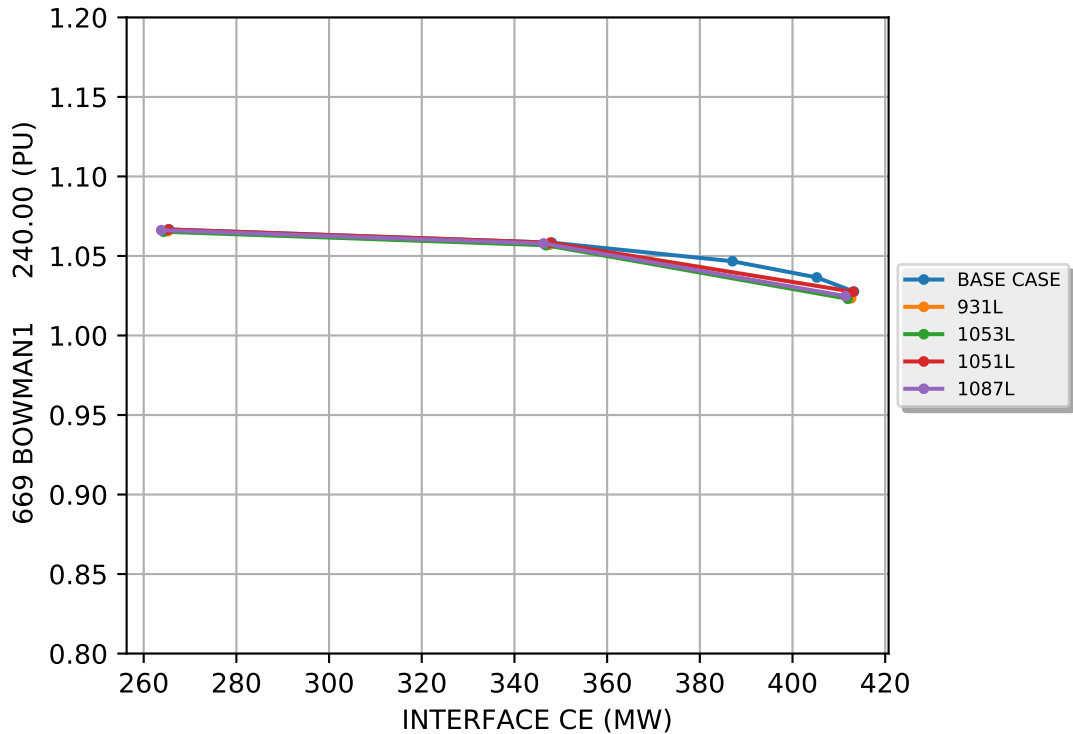


Figure: E-1-114

Case: H10, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 55.6%

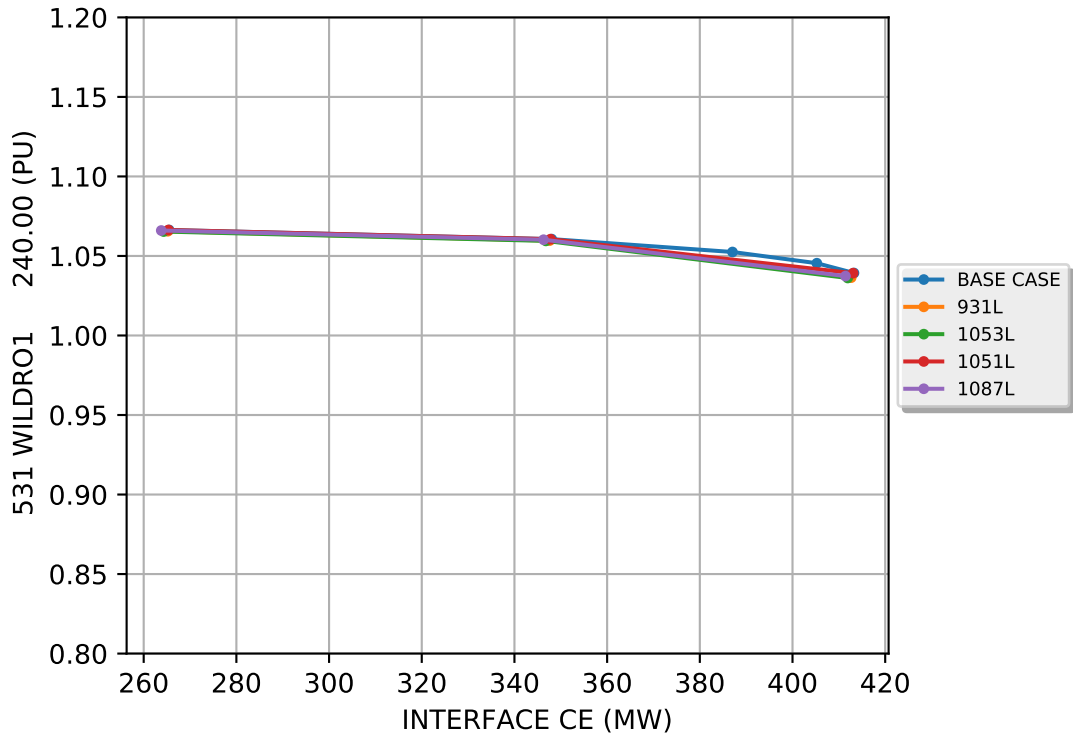


Figure: E-1-115

Case: H10, Option: PRE

Min Voltage: 1.03 PU, Min Margin: 55.6%

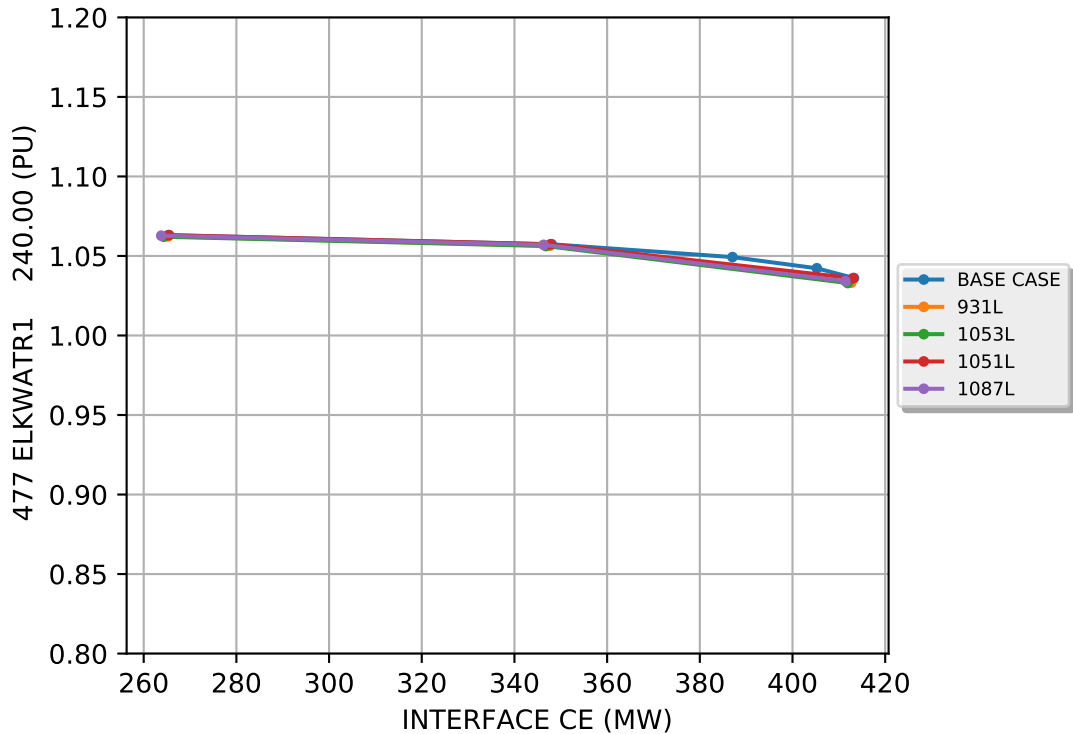


Figure: E-1-116

Case: H10, Option: PRE

Min Voltage: 1.03 PU, Min Margin: 55.6%

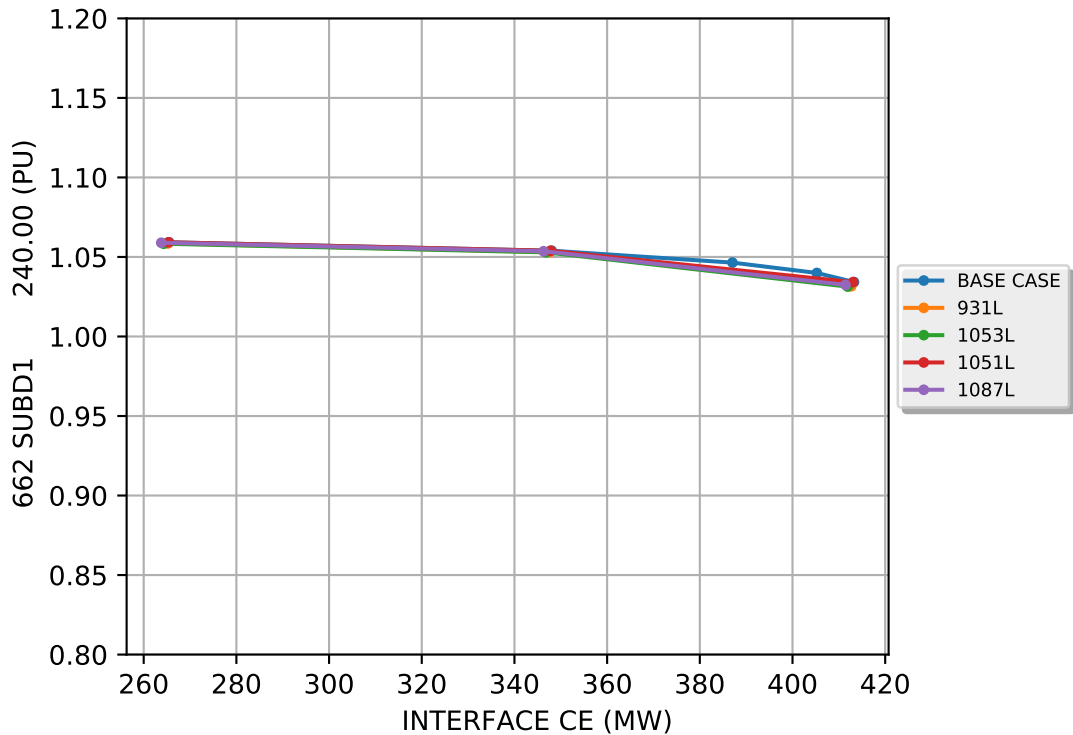


Figure: E-1-117

Case: H10, Option: PRE

Min Voltage: 1.03 PU, Min Margin: 55.6%

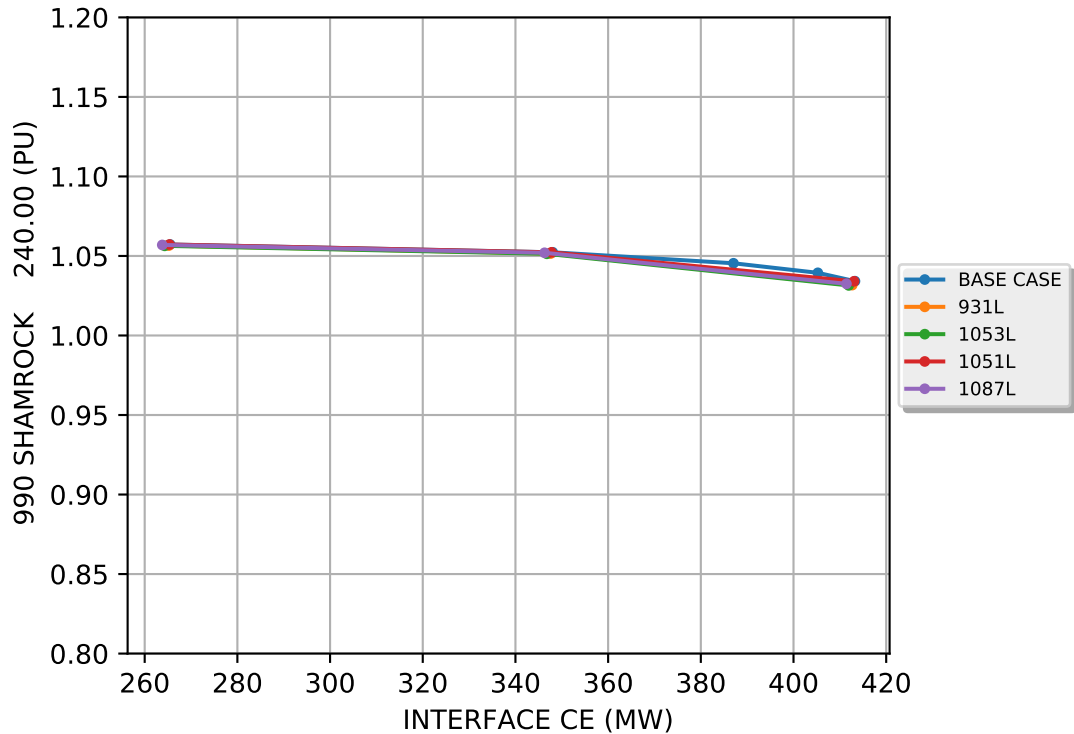


Figure: E-1-118

Case: H11, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 34.8%

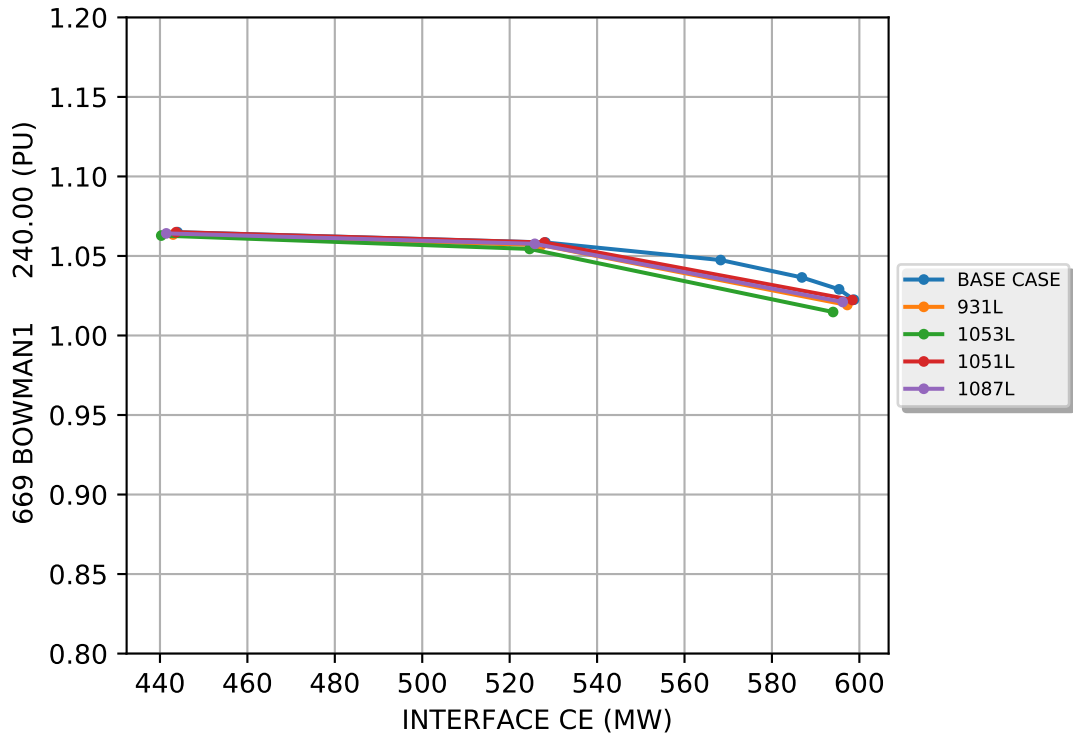


Figure: E-1-119

Case: H11, Option: PRE

Min Voltage: 1.03 PU, Min Margin: 34.8%

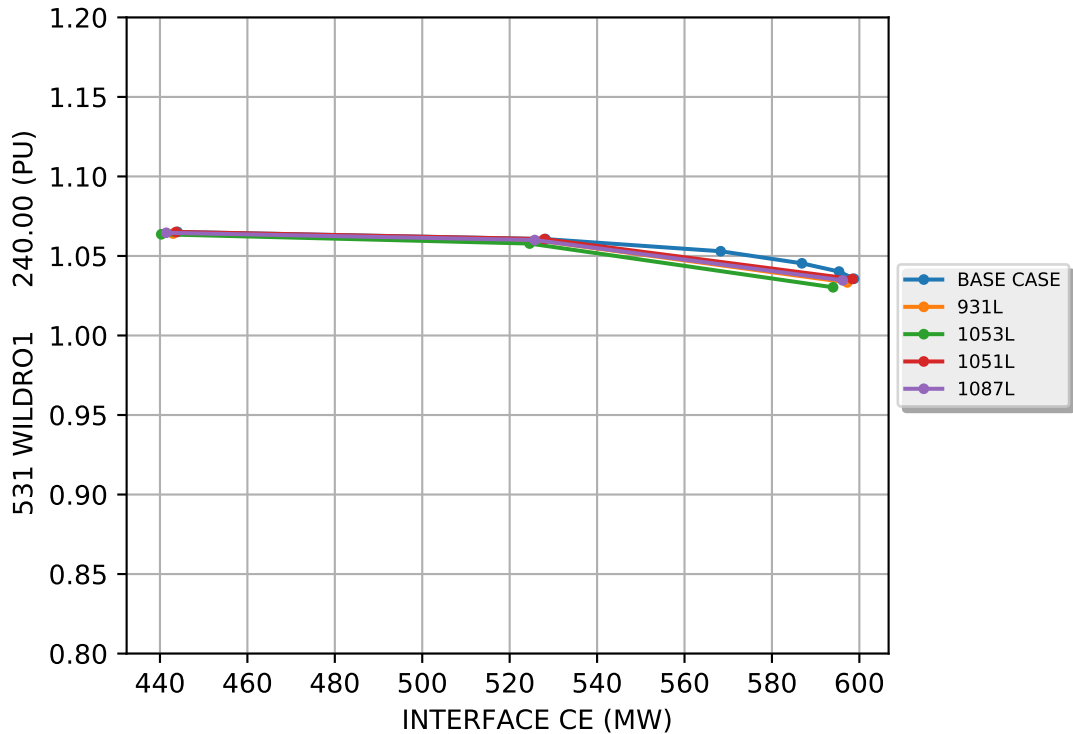


Figure: E-1-120

Case: H11, Option: PRE

Min Voltage: 1.03 PU, Min Margin: 34.8%

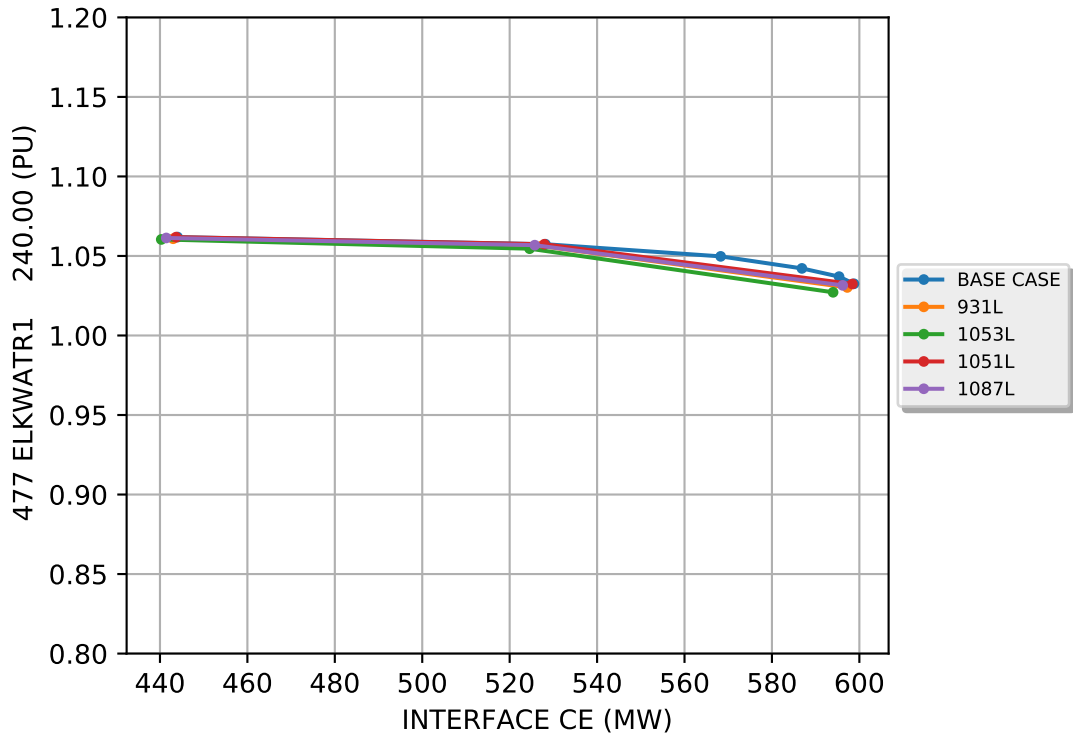


Figure: E-1-121

Case: H11, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 34.8%

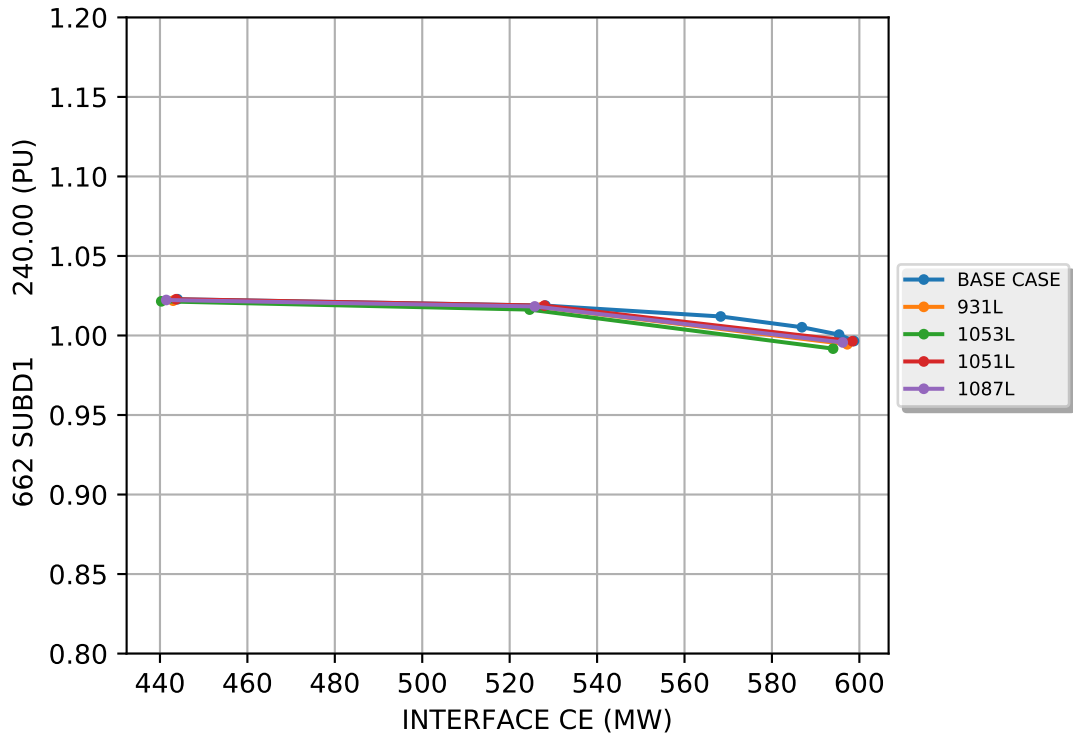


Figure: E-1-122

Case: H11, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 34.8%

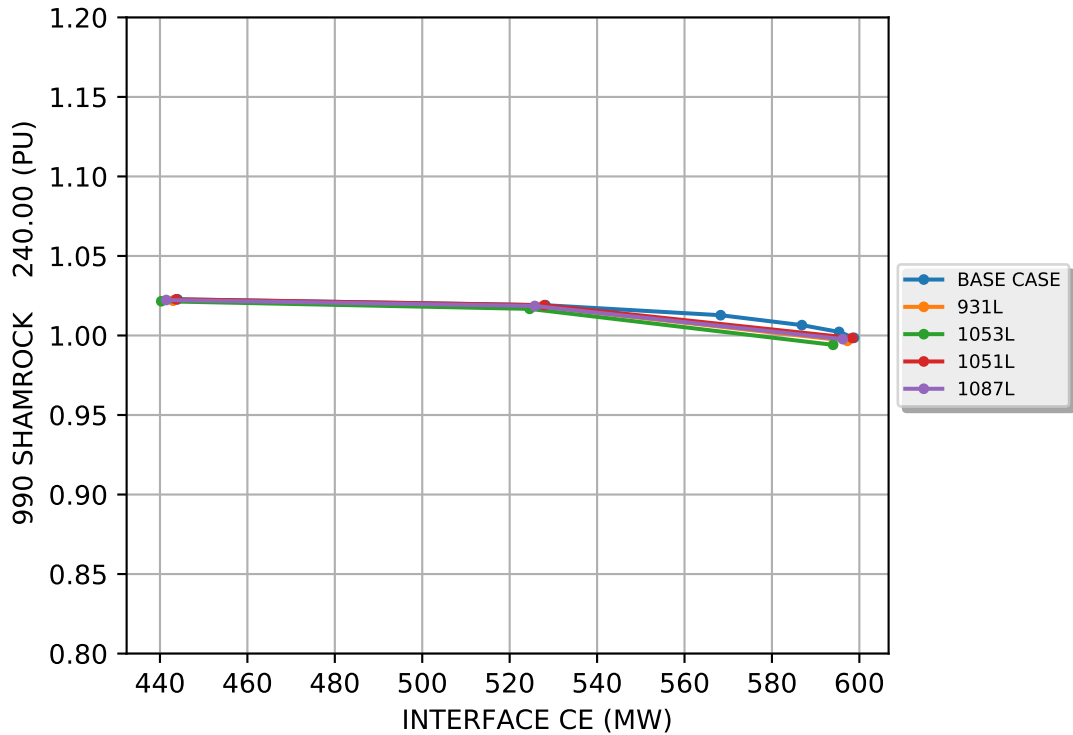


Figure: E-1-123

Case: H9, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 56.7%

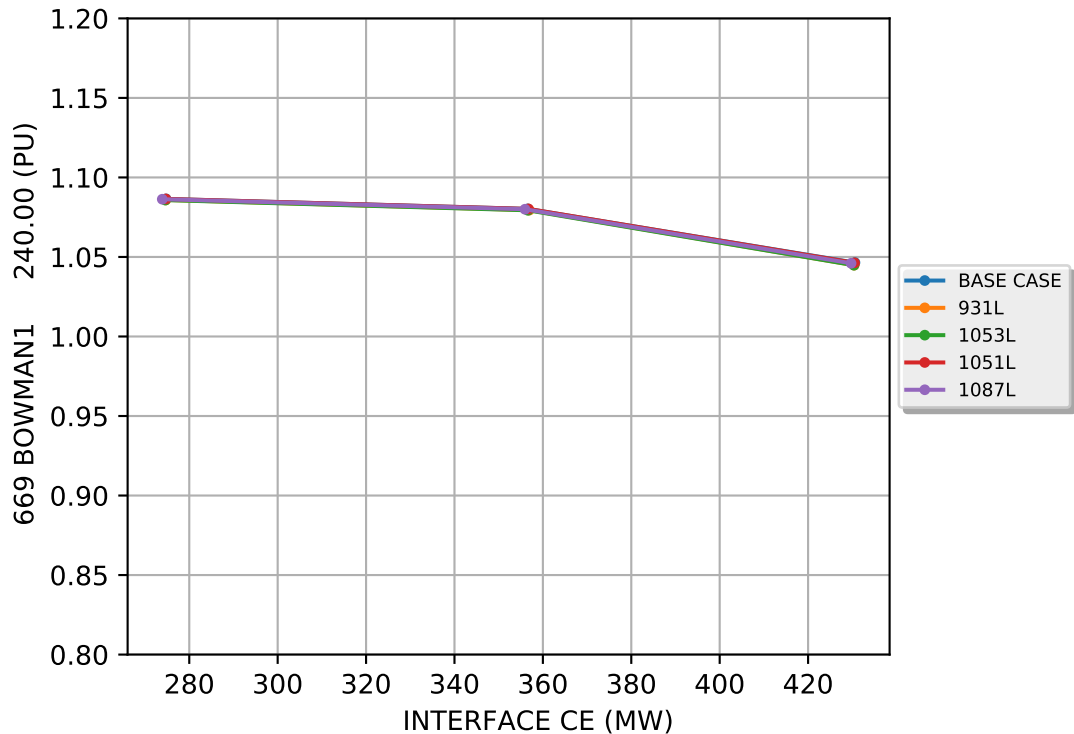


Figure: E-1-124

Case: H9, Option: PRE

Min Voltage: 1.06 PU, Min Margin: 56.7%

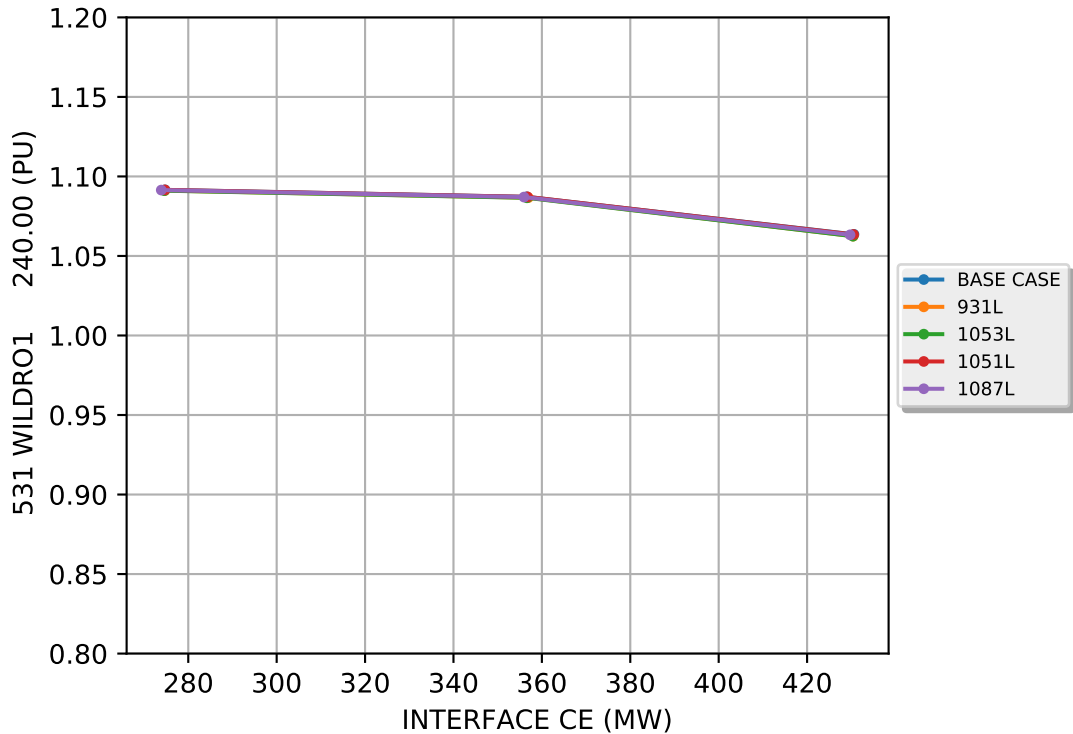


Figure: E-1-125

Case: H9, Option: PRE

Min Voltage: 1.06 PU, Min Margin: 56.7%

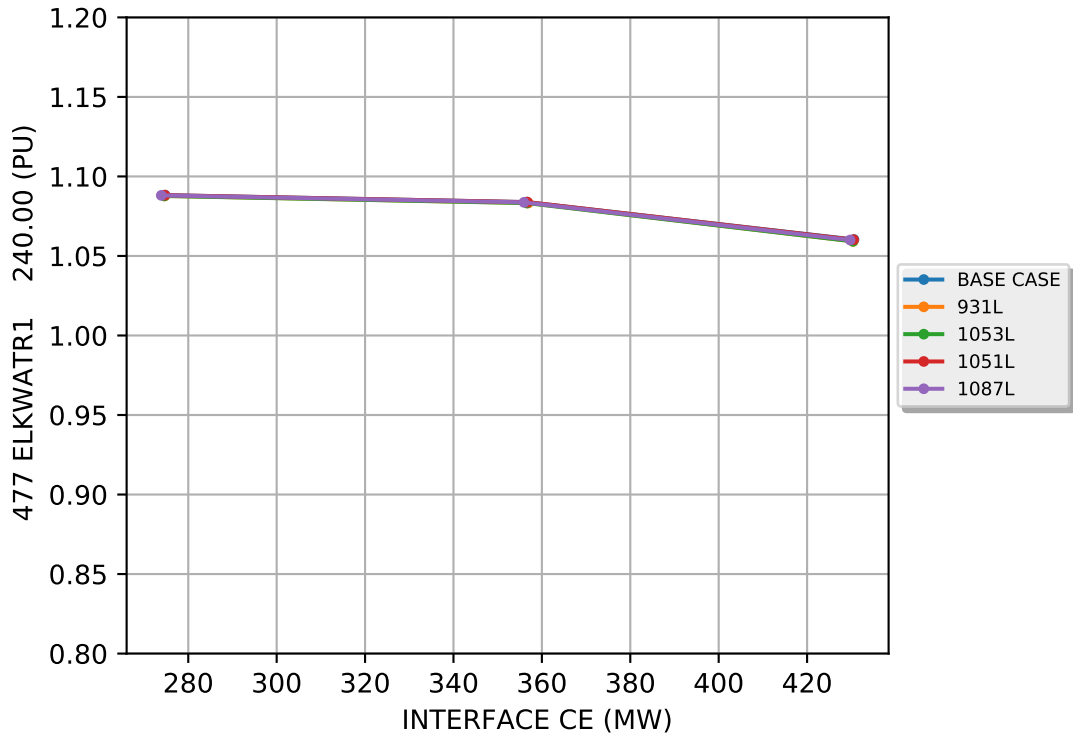


Figure: E-1-126

Case: H9, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 56.7%

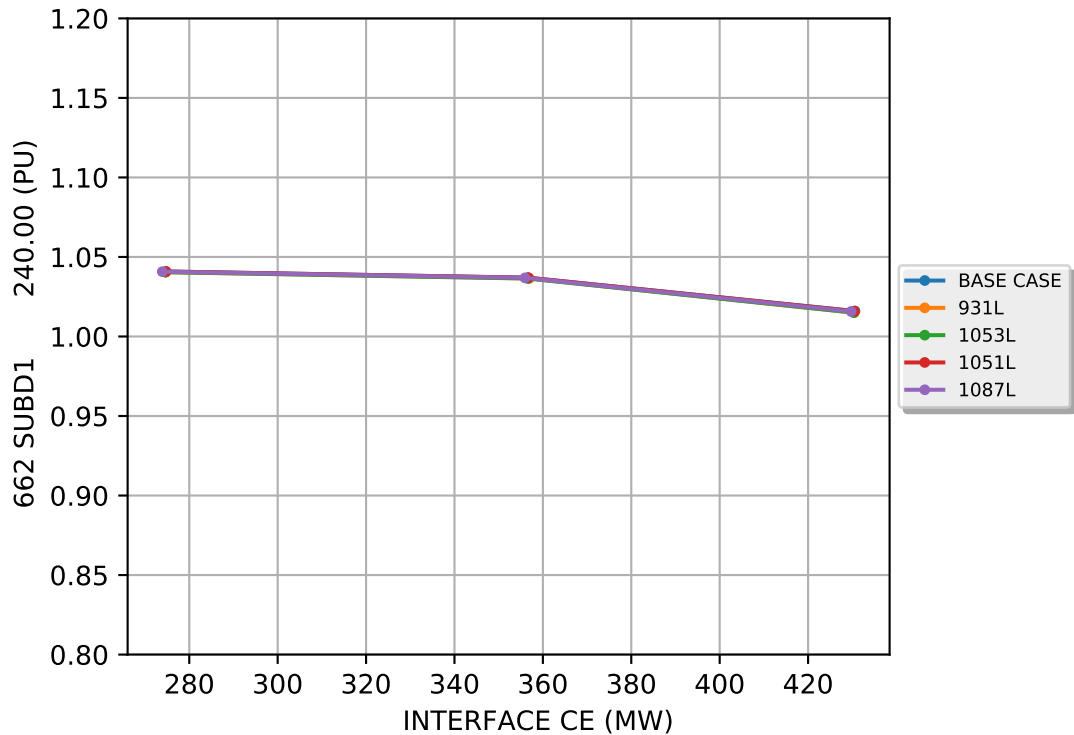


Figure: E-1-127

Case: H9, Option: PRE

Min Voltage: 1.02 PU, Min Margin: 56.7%

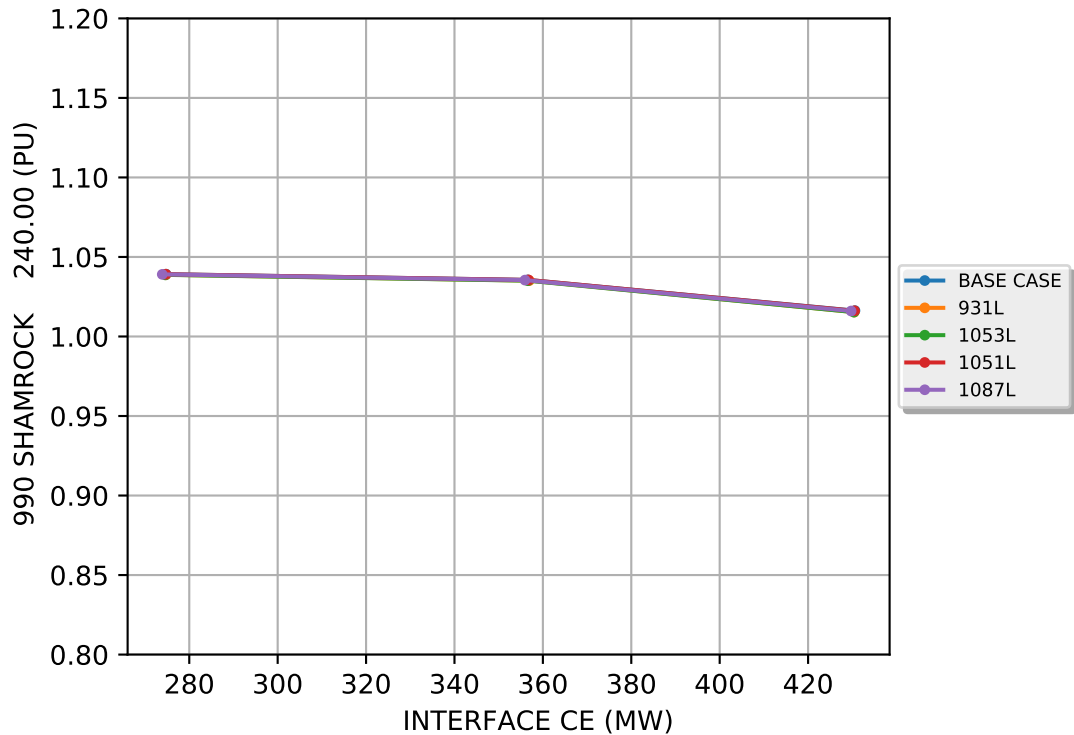


Figure: E-1-128

Case: M13, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 48.9%

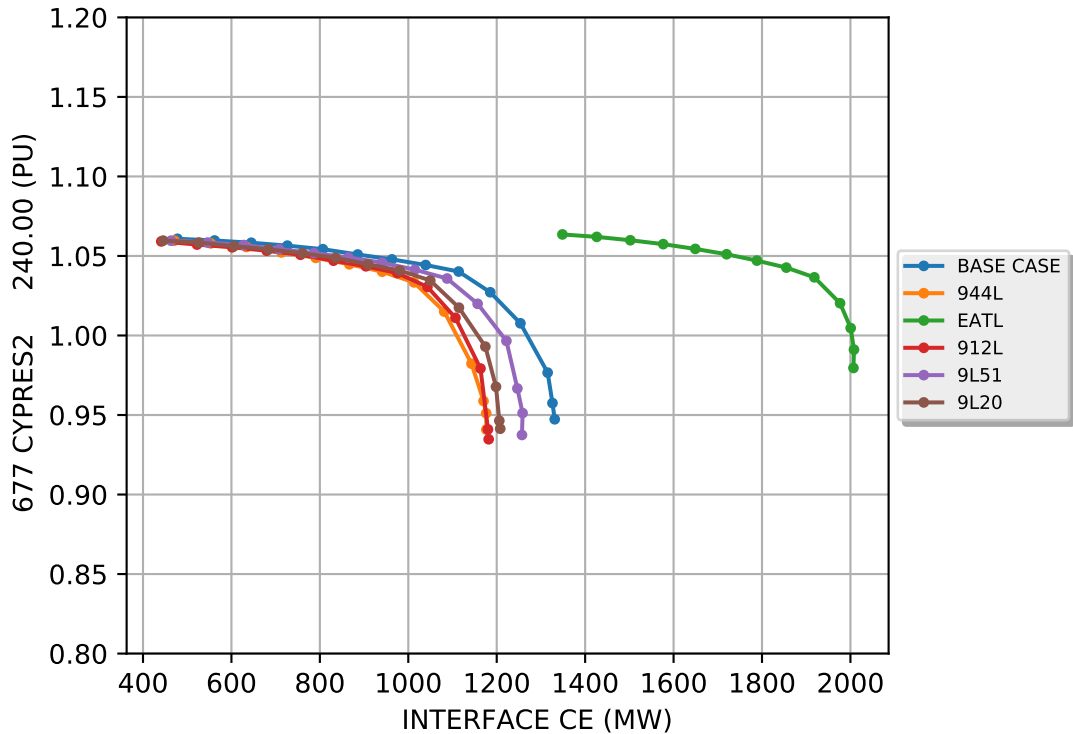


Figure: E-1-129

Case: M13, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 48.9%

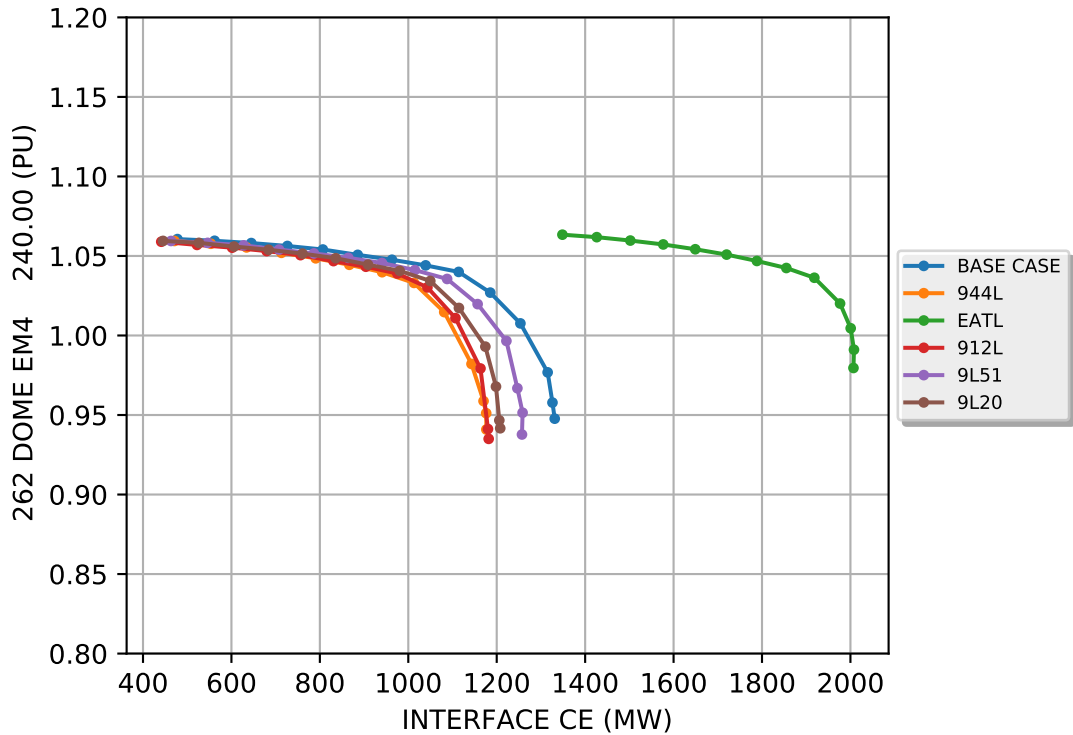


Figure: E-1-130

Case: M13, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 48.9%

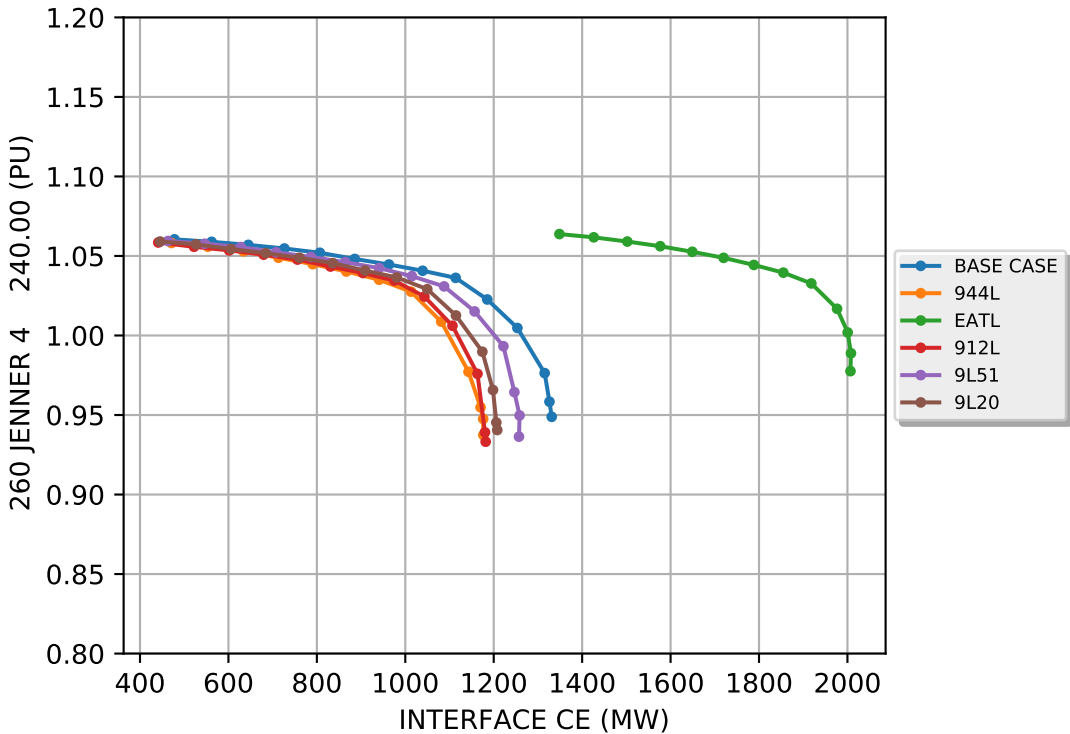


Figure: E-1-131

Case: M13, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 48.9%

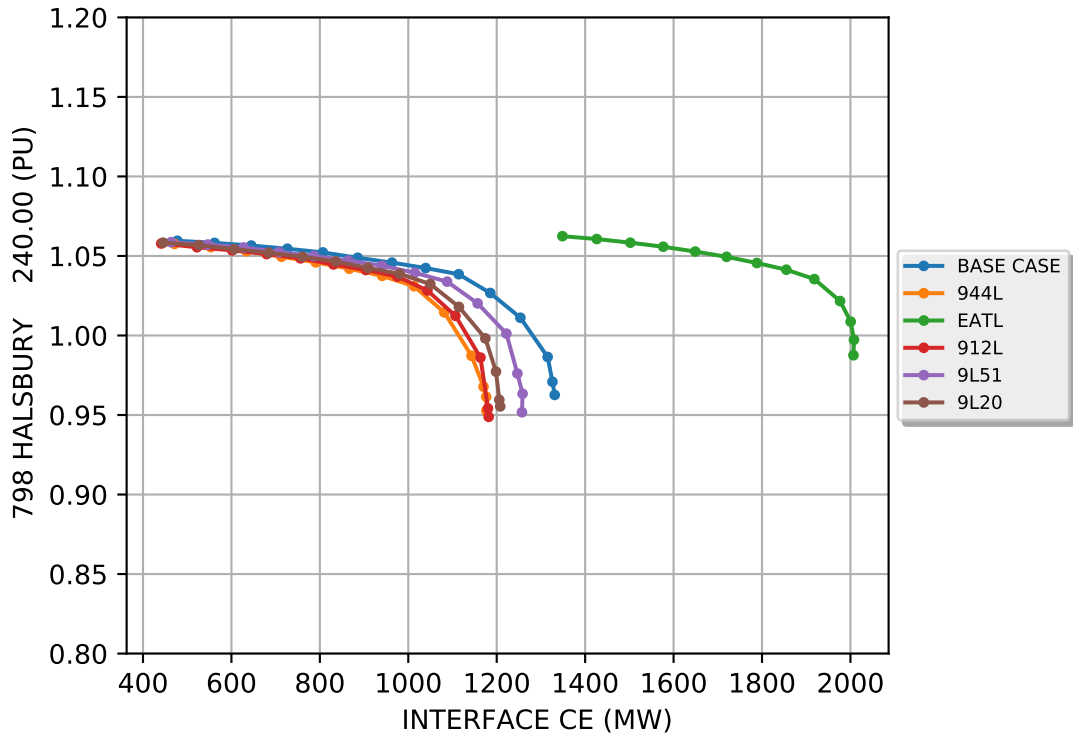


Figure: E-1-132

Case: M13, Option: PRE

Min Voltage: 0.96 PU, Min Margin: 48.9%

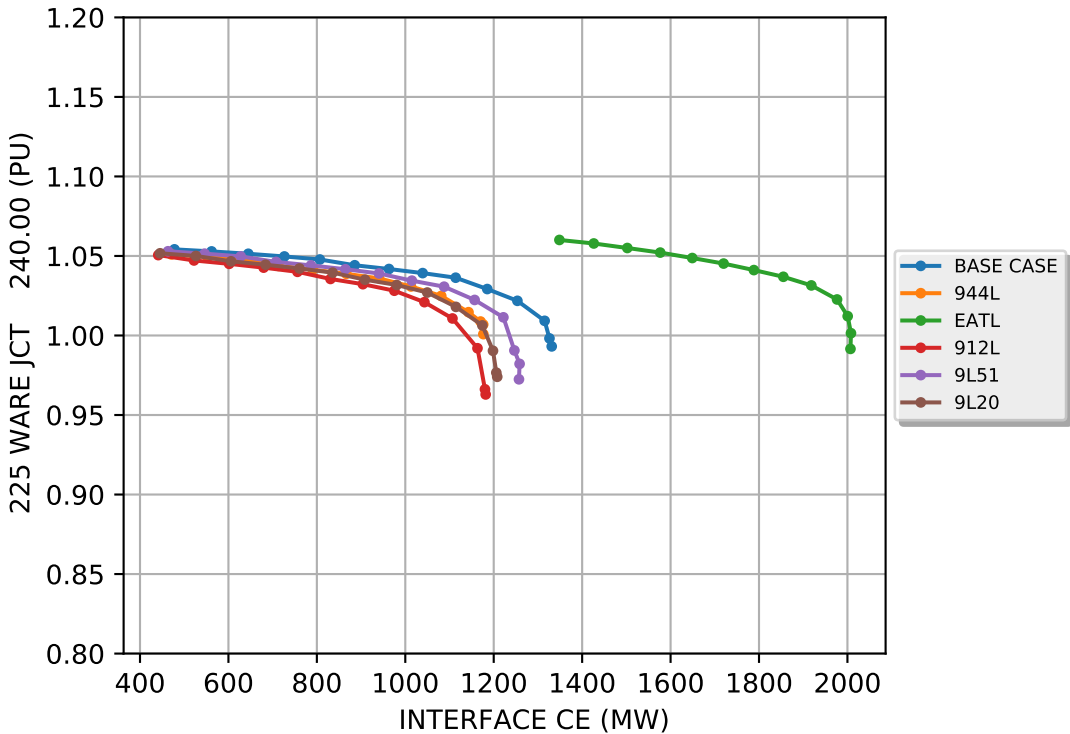


Figure: E-1-133

Case: M13, Option: PRE

Min Voltage: 0.90 PU, Min Margin: 48.9%

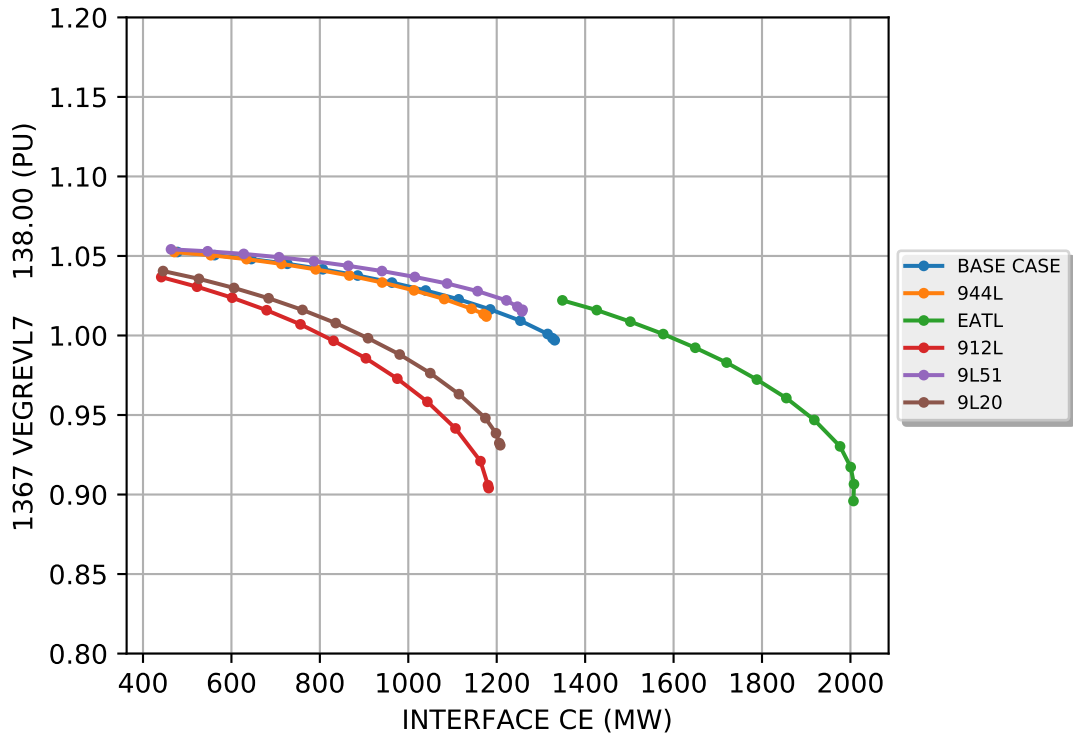


Figure: E-1-134

Case: M13, Option: PRE

Min Voltage: 0.90 PU, Min Margin: 48.9%

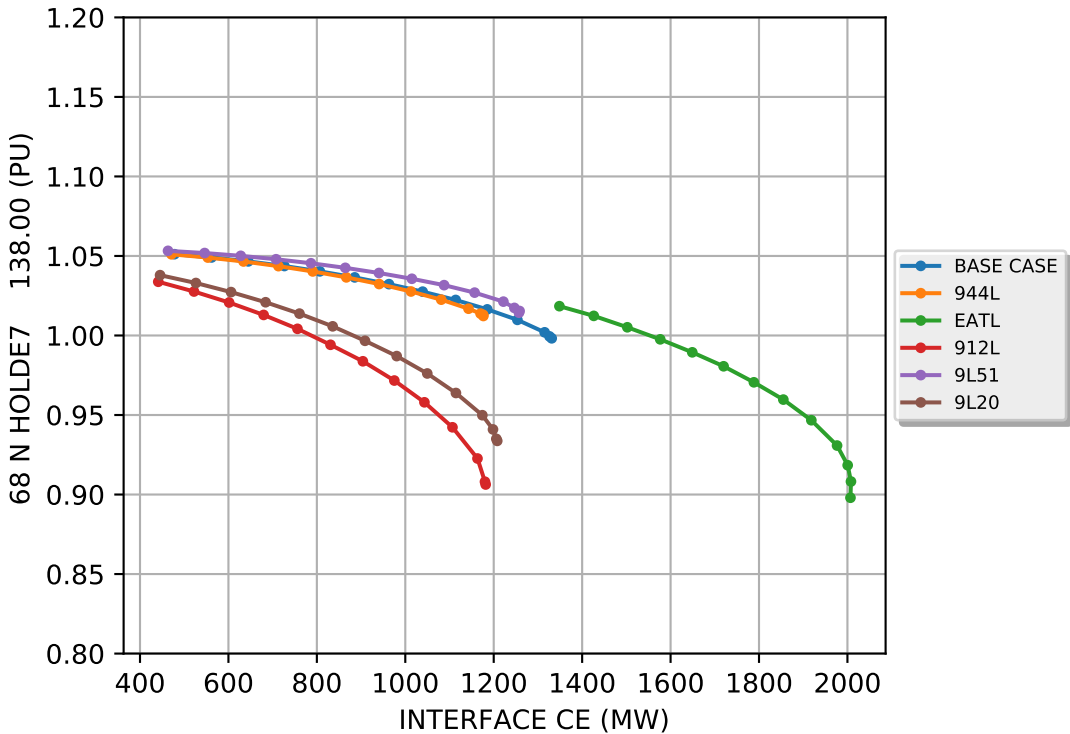


Figure: E-1-135

Case: M13, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 48.9%

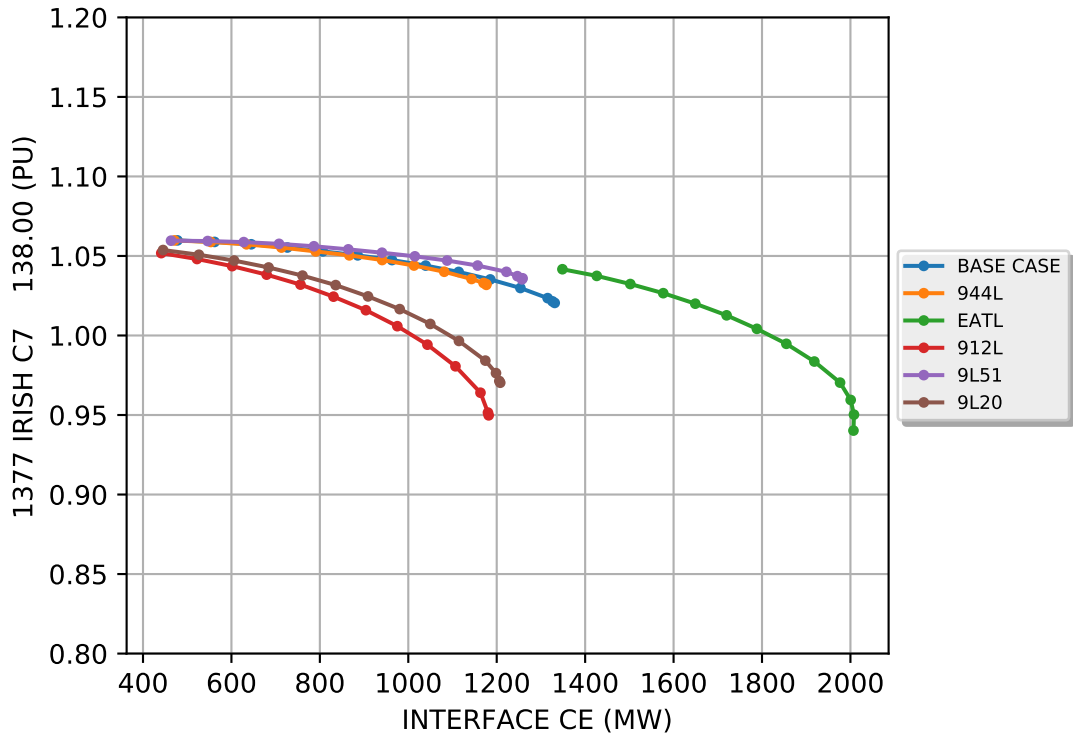


Figure: E-1-136

Case: M13, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 48.9%

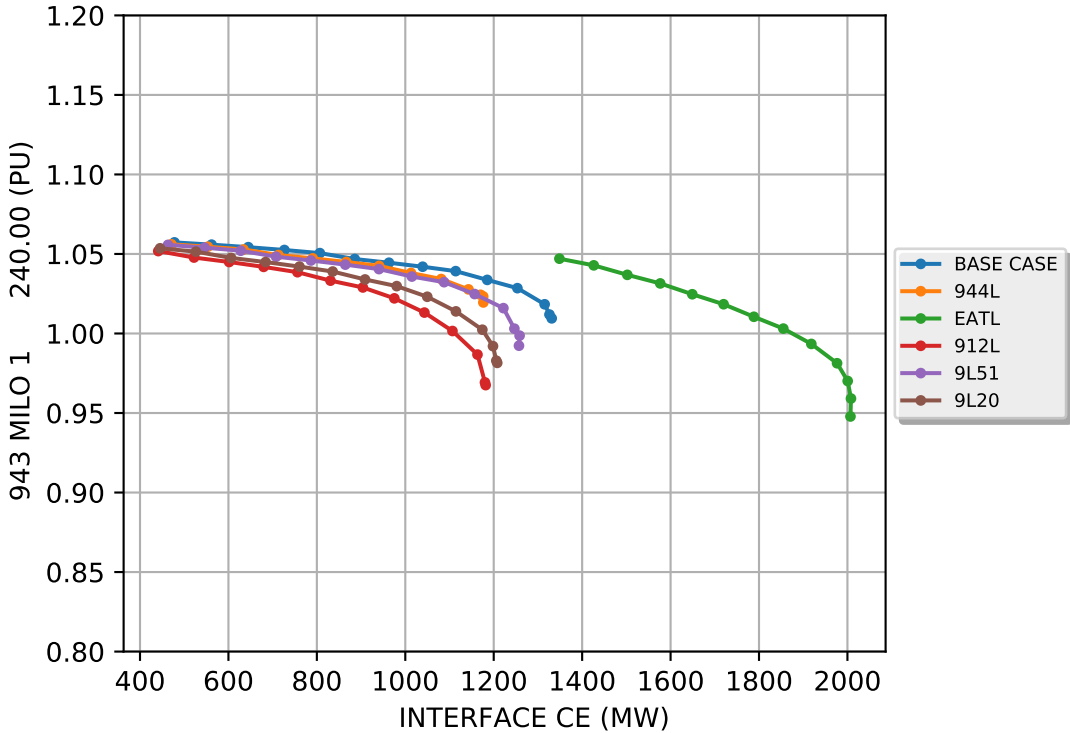


Figure: E-1-137

Case: M13, Option: PRE

Min Voltage: 0.92 PU, Min Margin: 48.9%

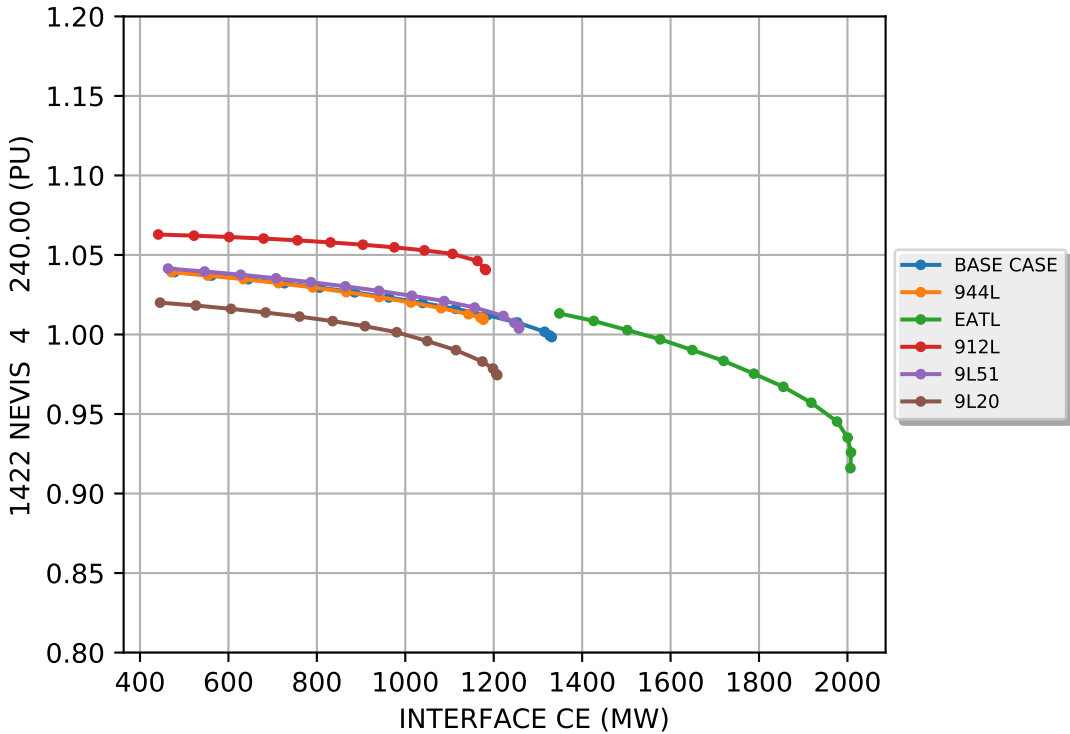


Figure: E-1-138

Case: M14, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 51.0%

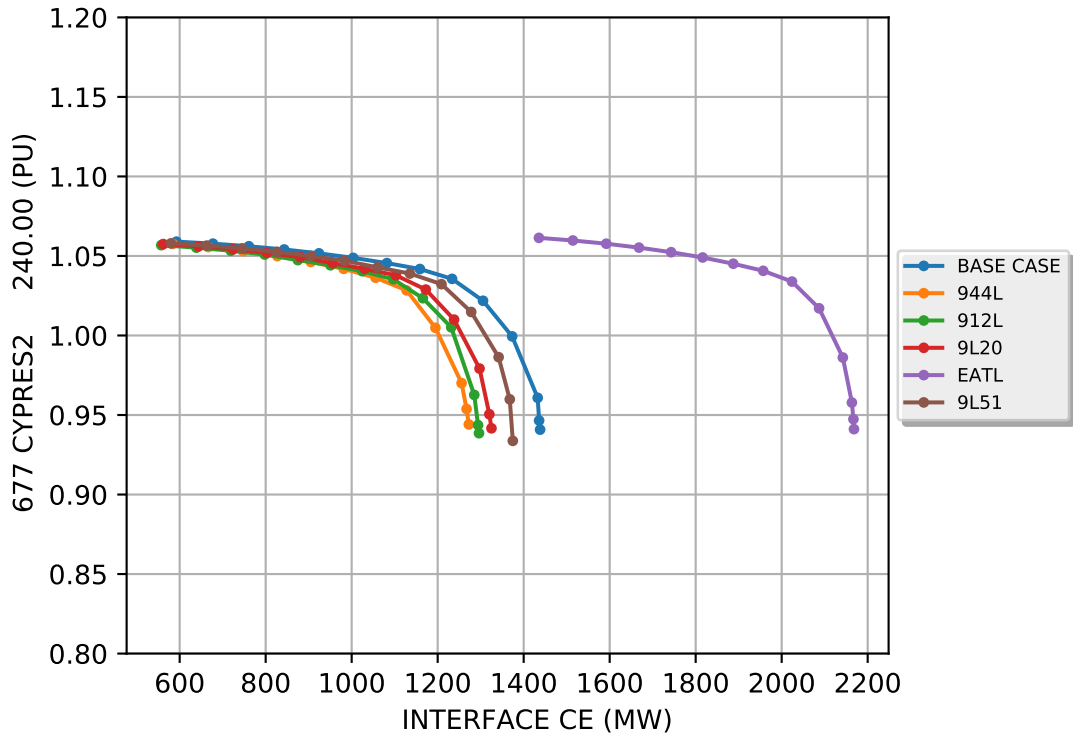


Figure: E-1-139

Case: M14, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 51.0%

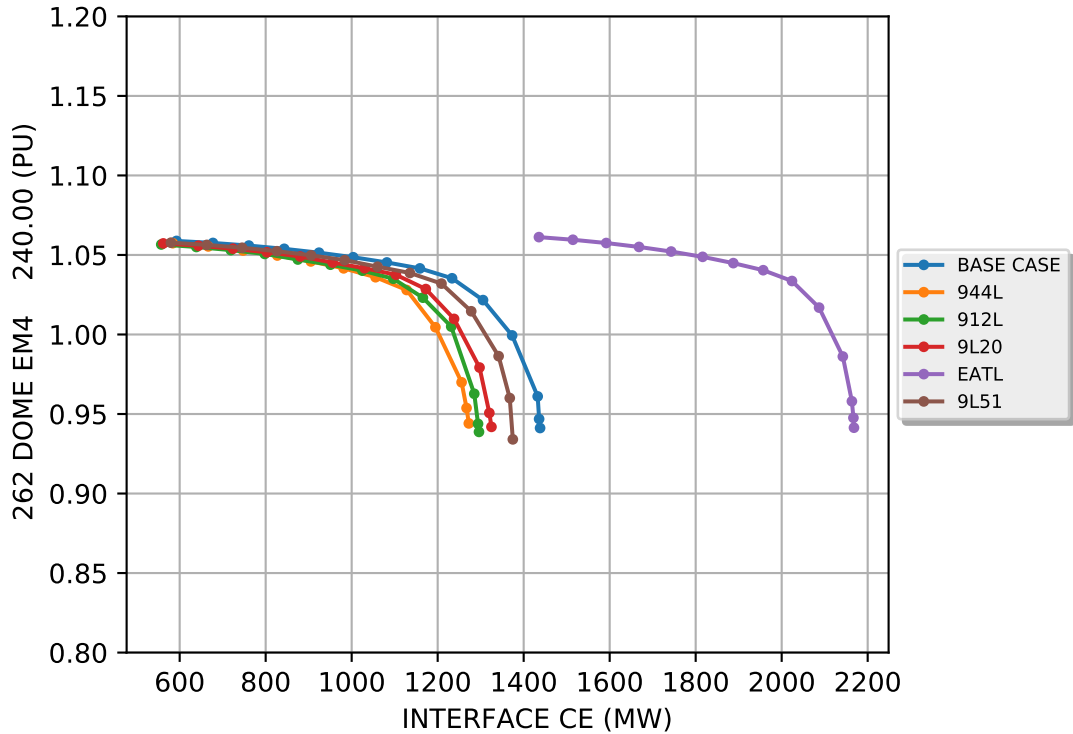


Figure: E-1-140

Case: M14, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 51.0%

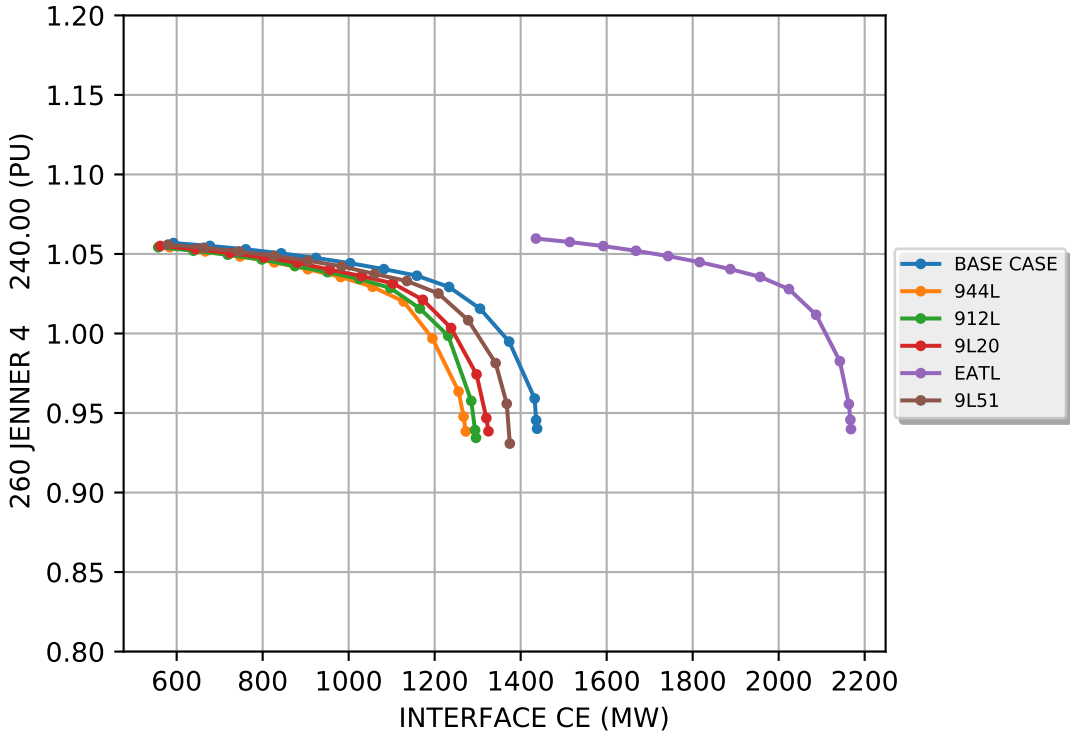


Figure: E-1-141

Case: M14, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 51.0%

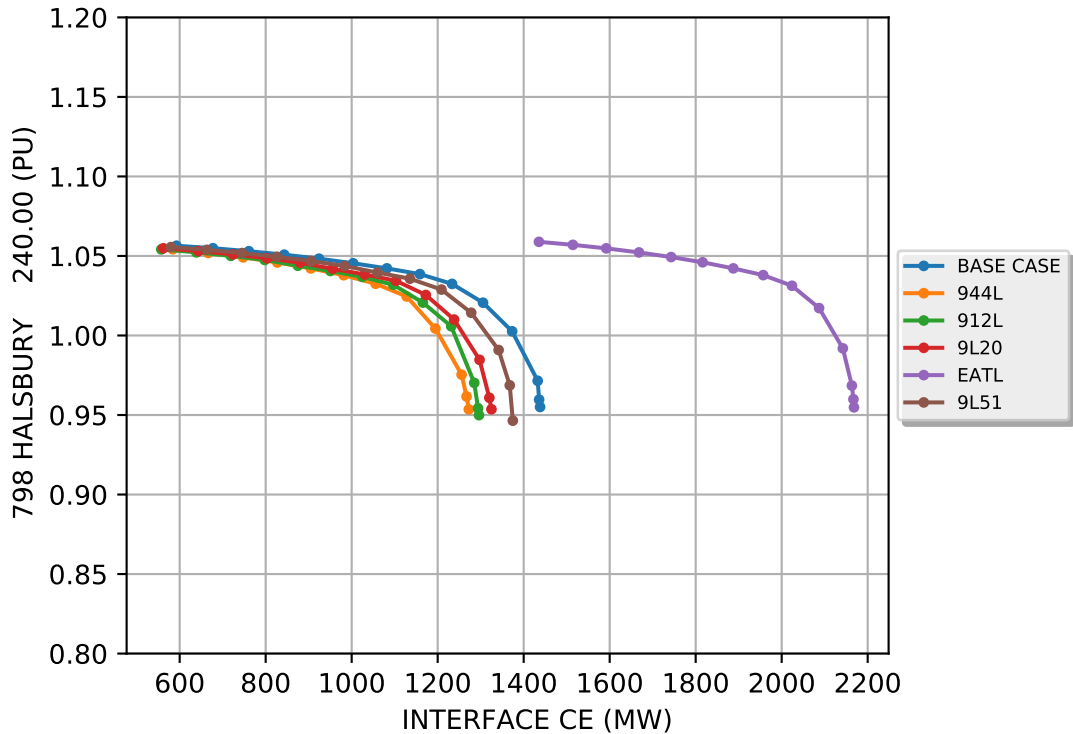


Figure: E-1-142

Case: M14, Option: PRE

Min Voltage: 0.96 PU, Min Margin: 51.0%

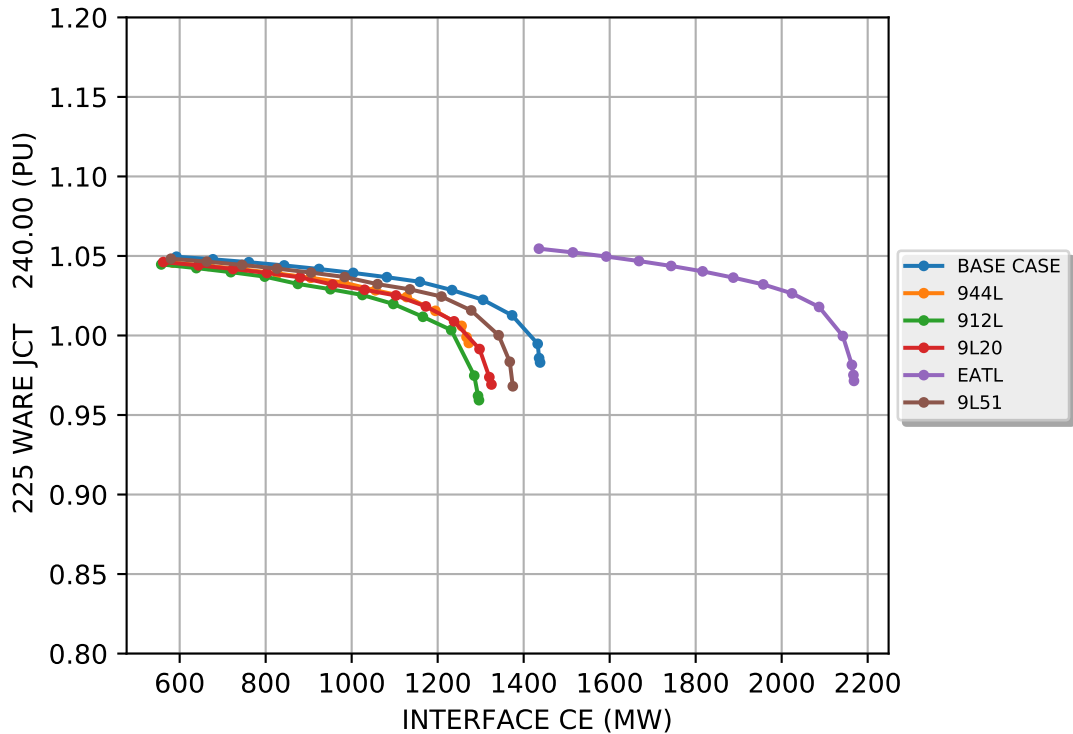


Figure: E-1-143

Case: M14, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 51.0%

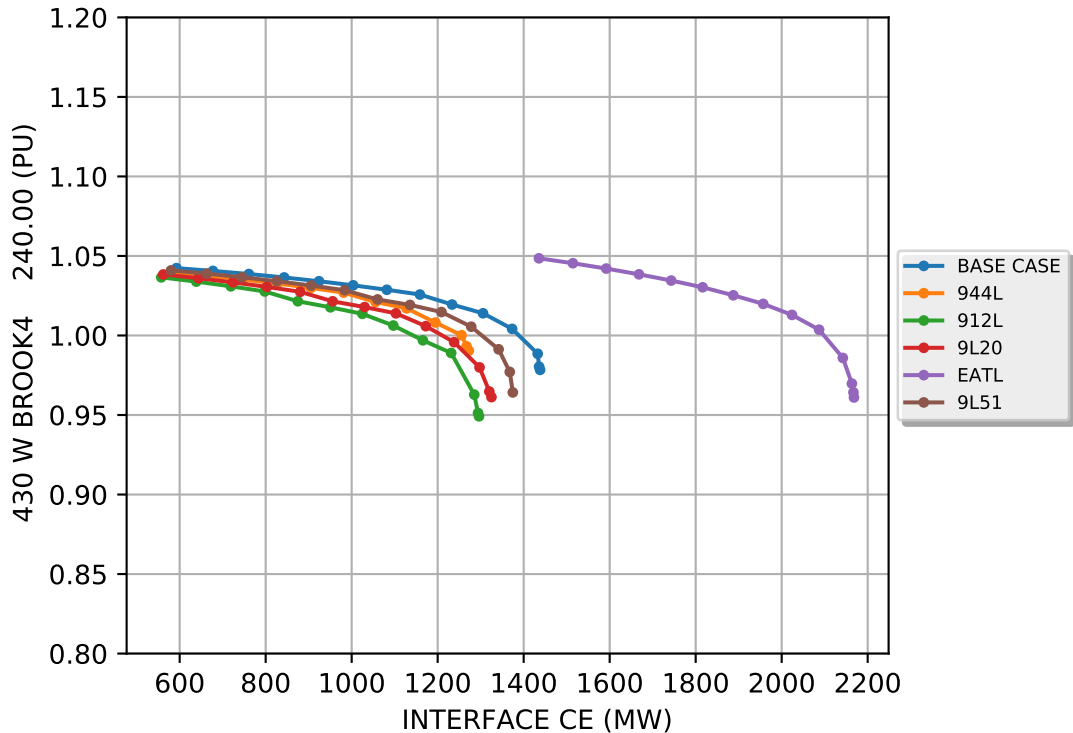


Figure: E-1-144

Case: M14, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 51.0%

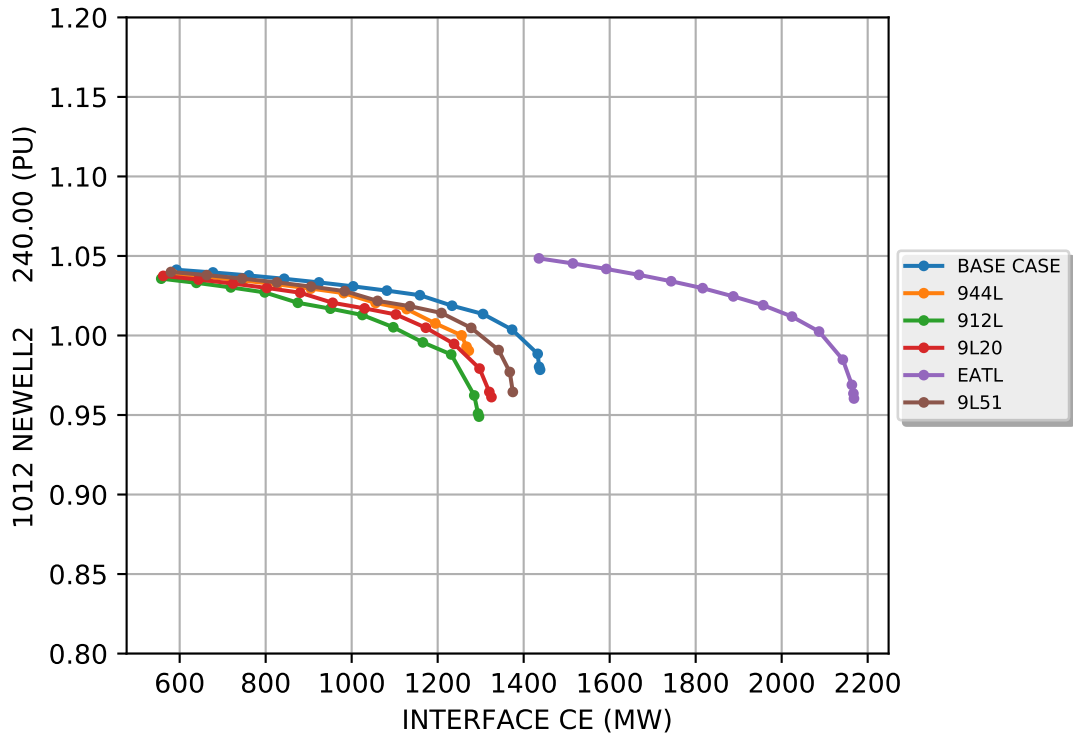


Figure: E-1-145

Case: M10, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 61.8%

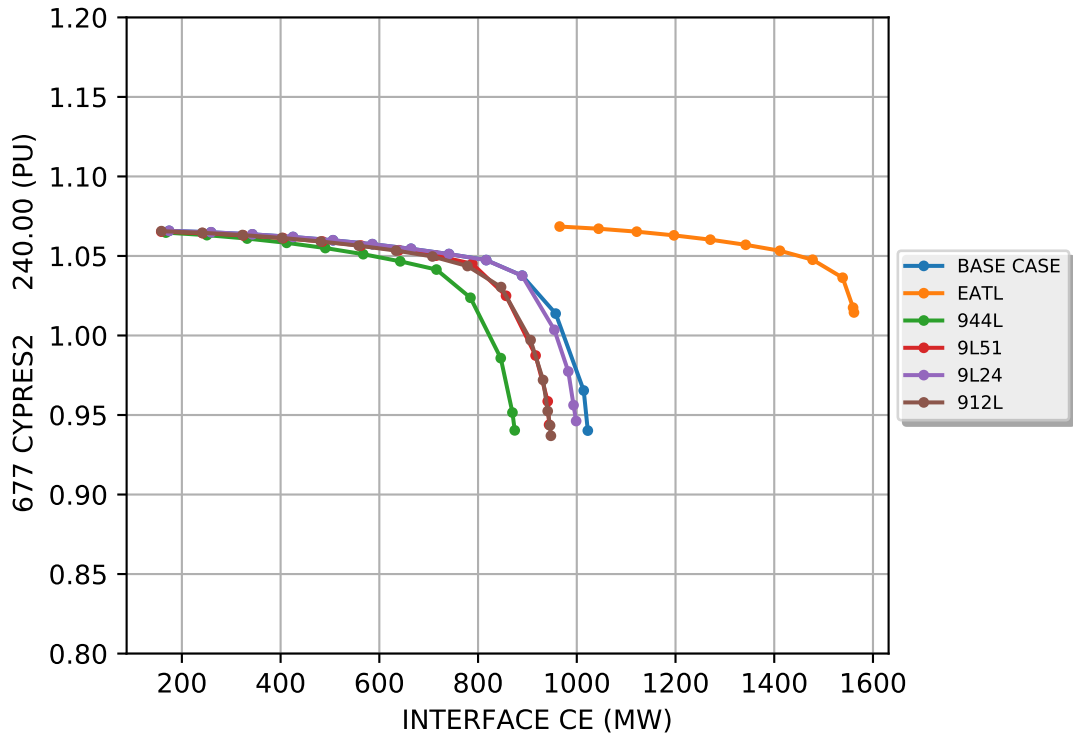


Figure: E-1-146

Case: M10, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 61.8%

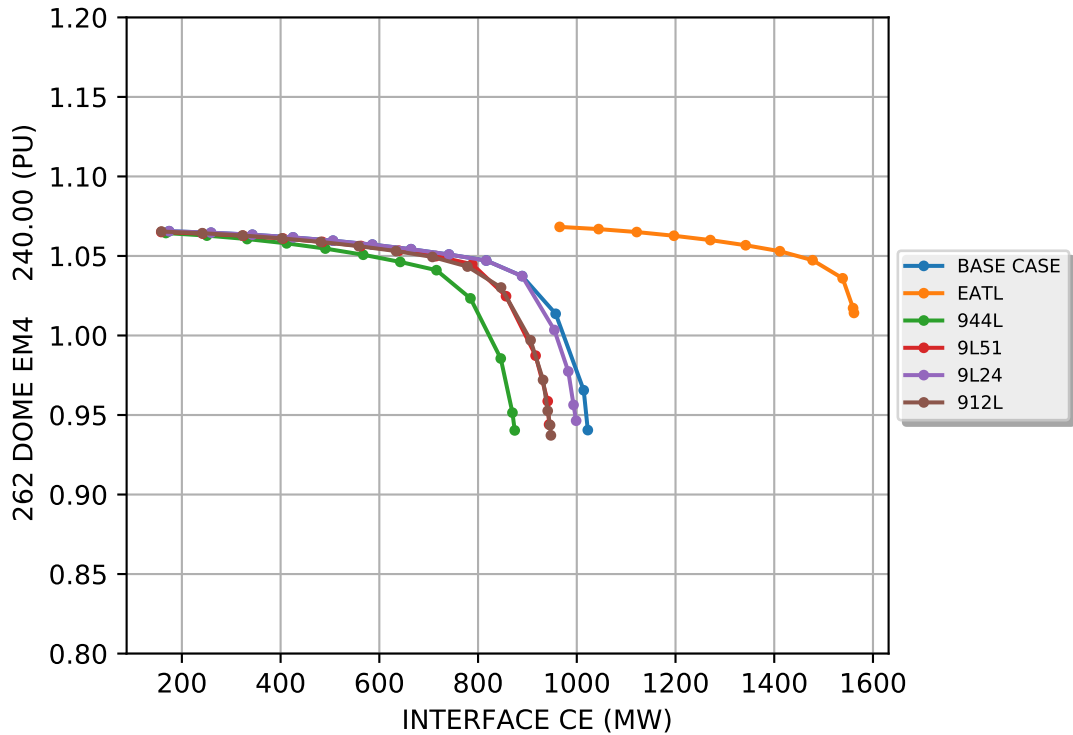


Figure: E-1-147

Case: M10, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 61.8%

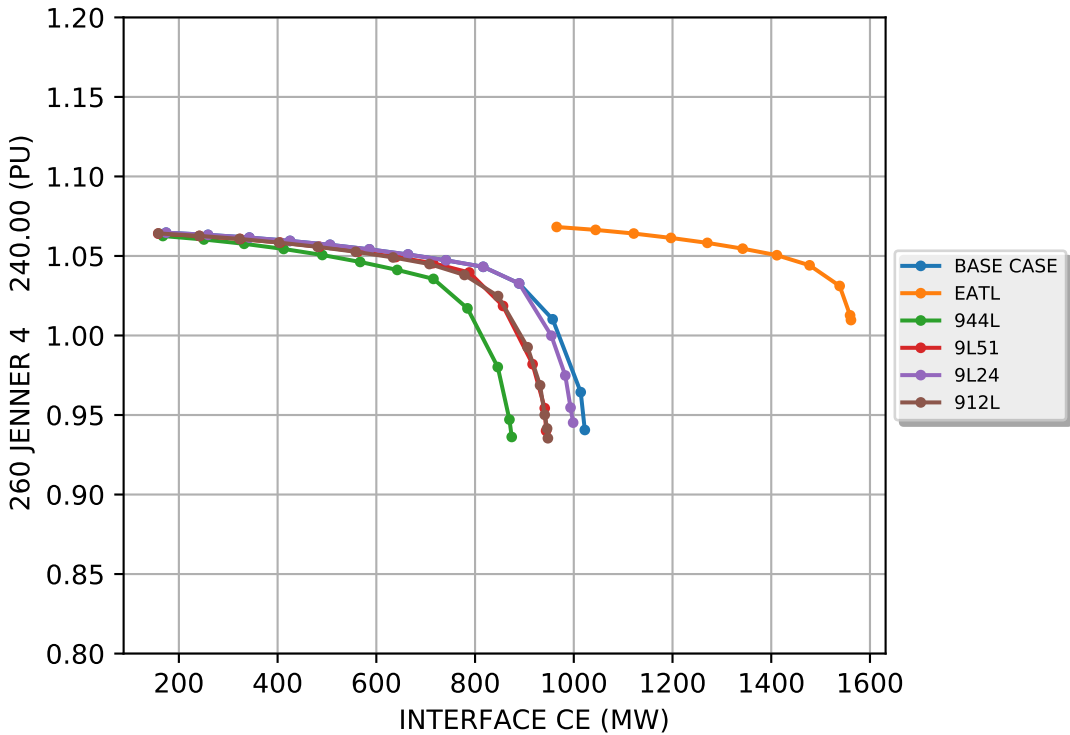


Figure: E-1-148

Case: M10, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 61.8%

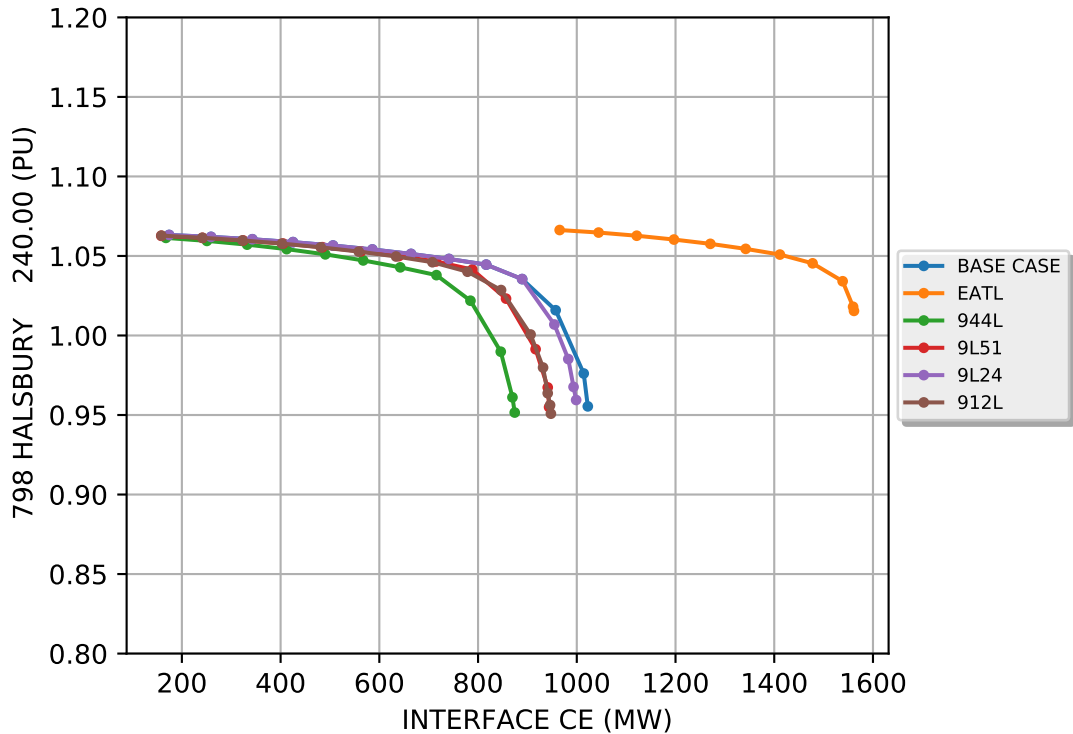


Figure: E-1-149

Case: M10, Option: PRE

Min Voltage: 0.97 PU, Min Margin: 61.8%

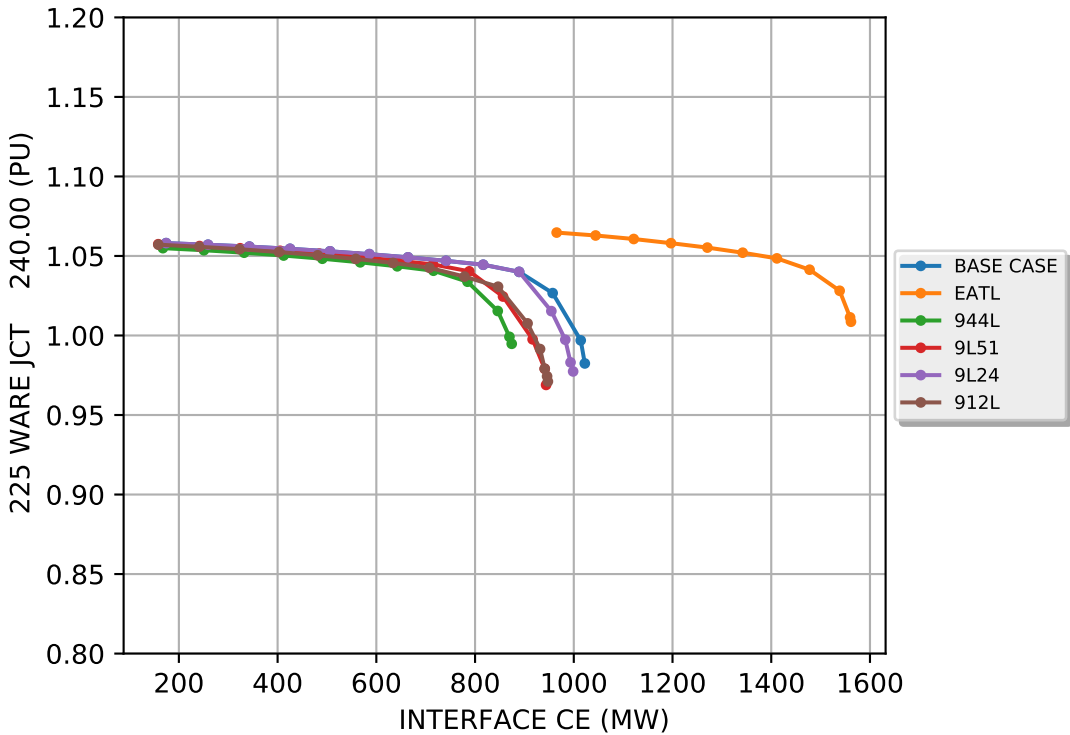


Figure: E-1-150

Case: M10, Option: PRE

Min Voltage: 0.92 PU, Min Margin: 61.8%

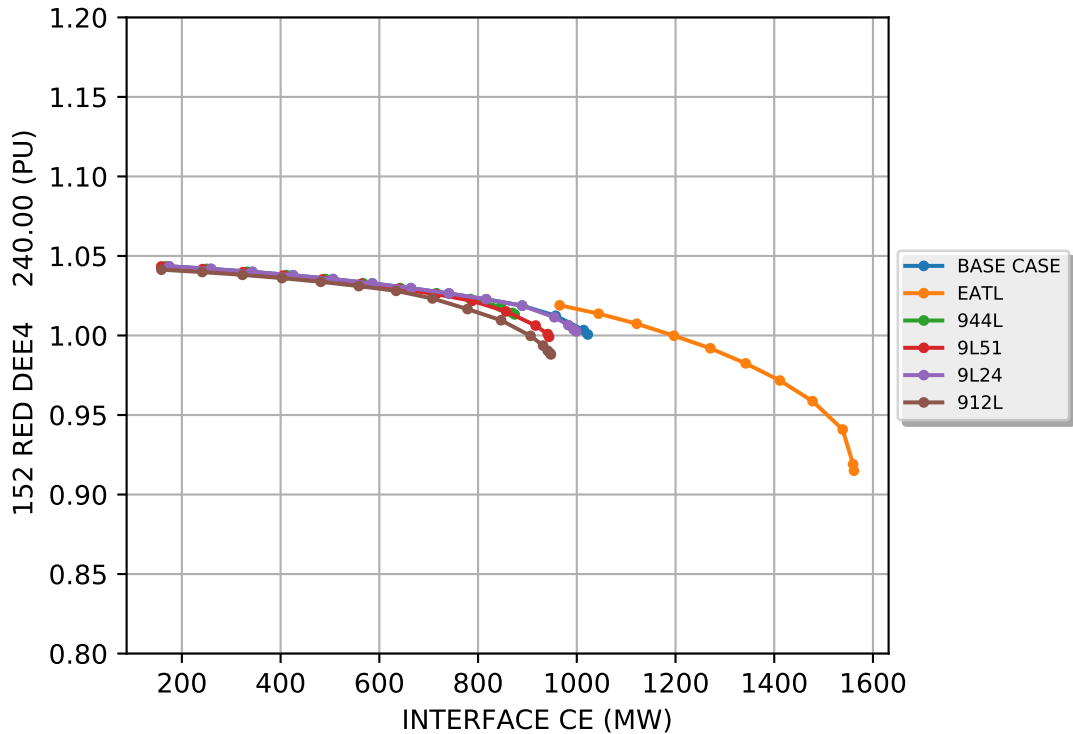


Figure: E-1-151

Case: M10, Option: PRE

Min Voltage: 0.90 PU, Min Margin: 61.8%

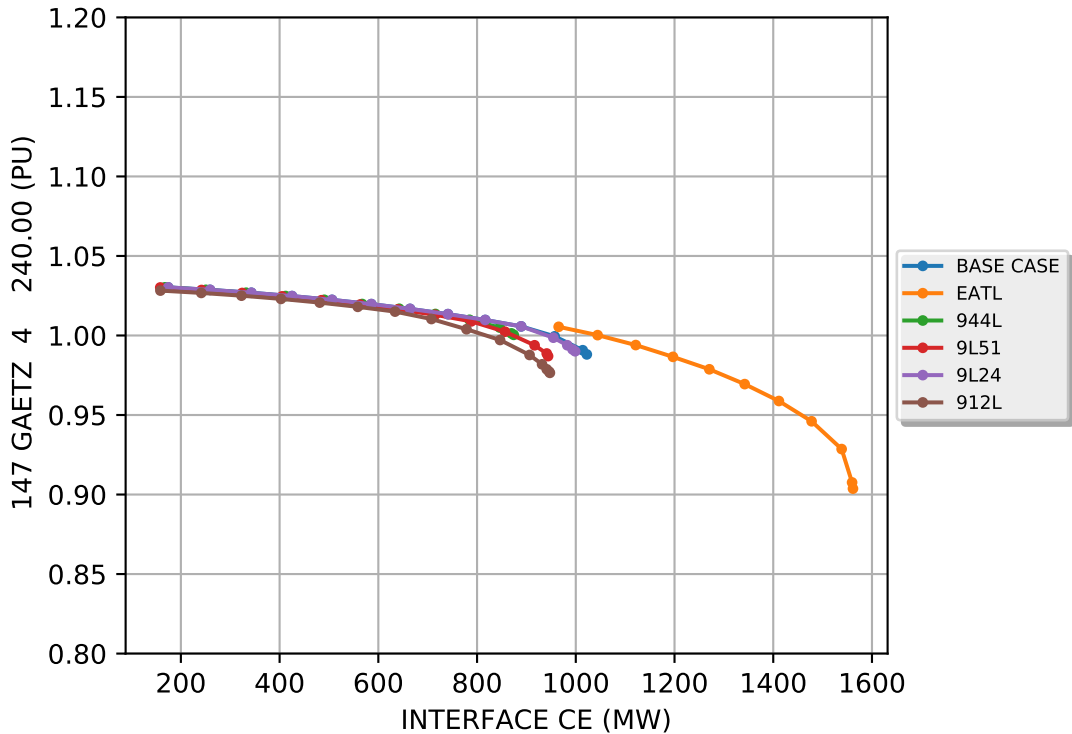


Figure: E-1-152

Case: M10, Option: PRE

Min Voltage: 0.92 PU, Min Margin: 61.8%

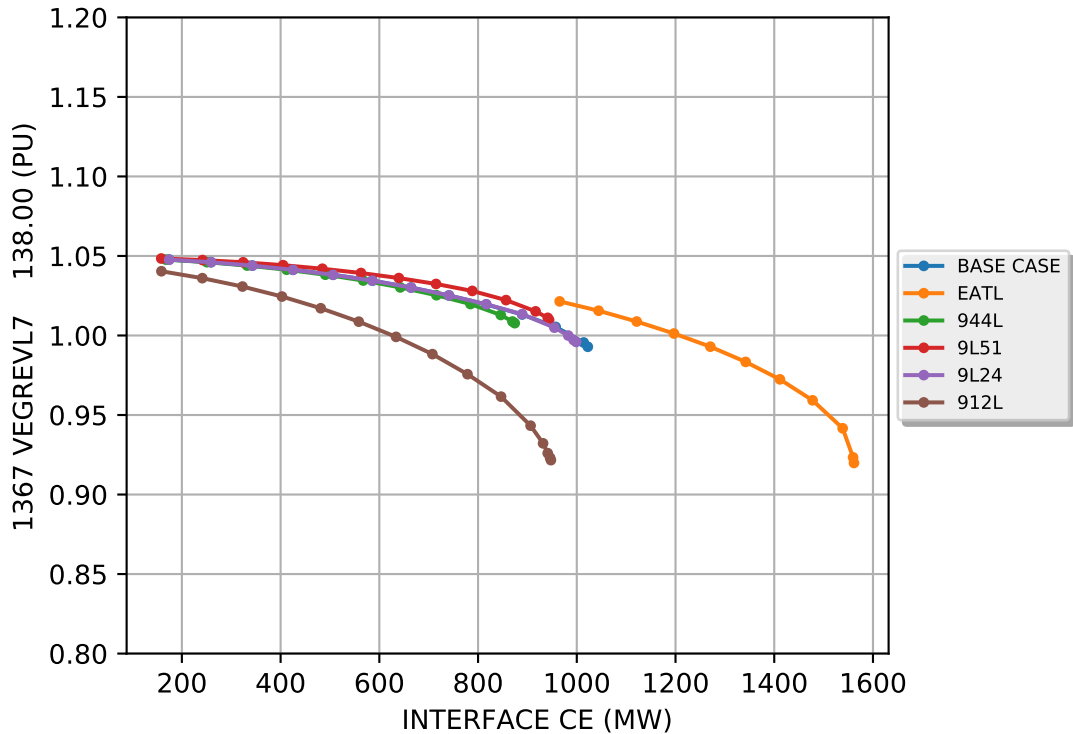


Figure: E-1-153

Case: M10, Option: PRE

Min Voltage: 0.92 PU, Min Margin: 61.8%

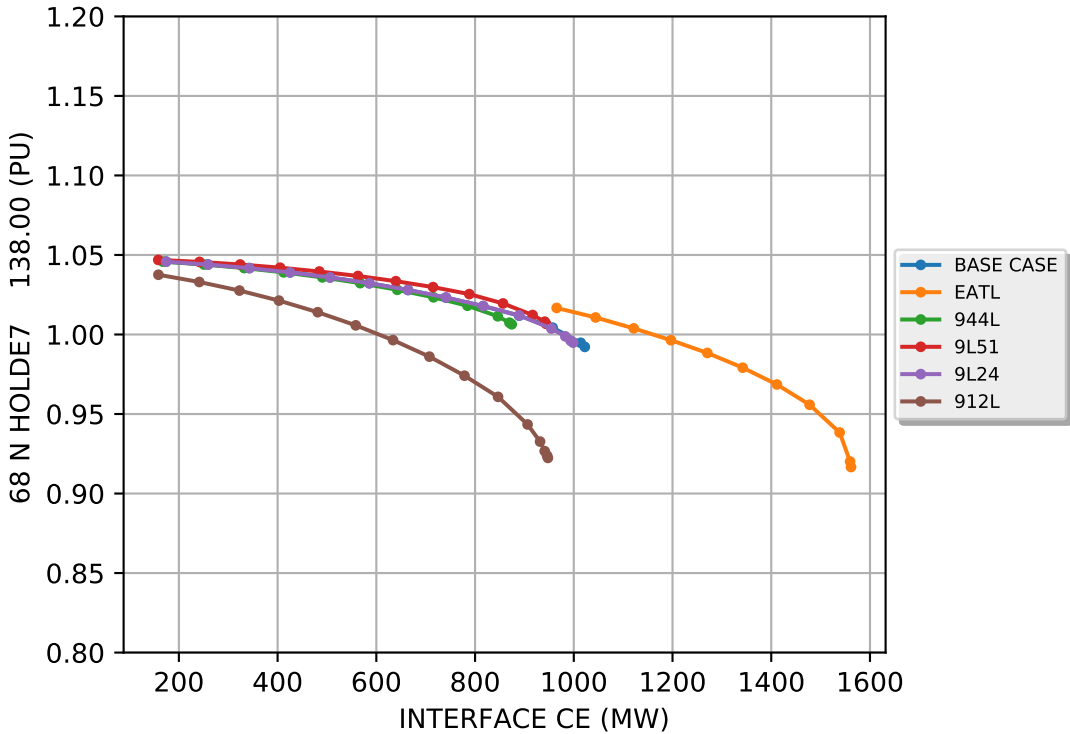


Figure: E-1-154

Case: M10, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 61.8%

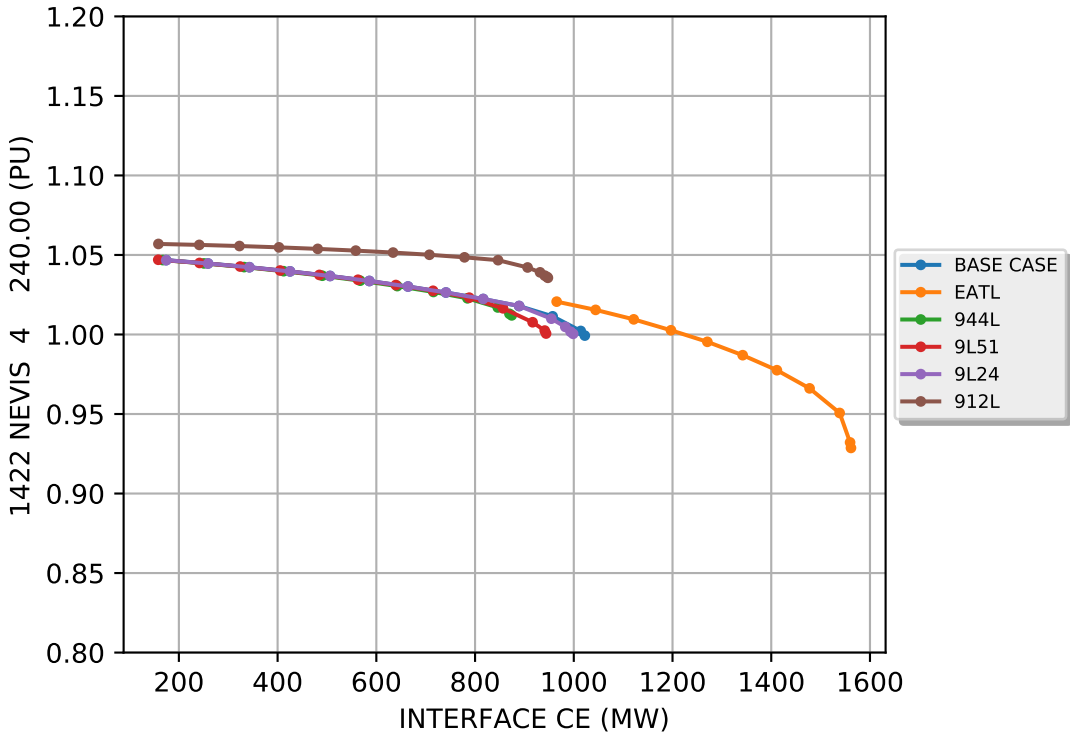


Figure: E-1-155

Case: M11, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 57.2%

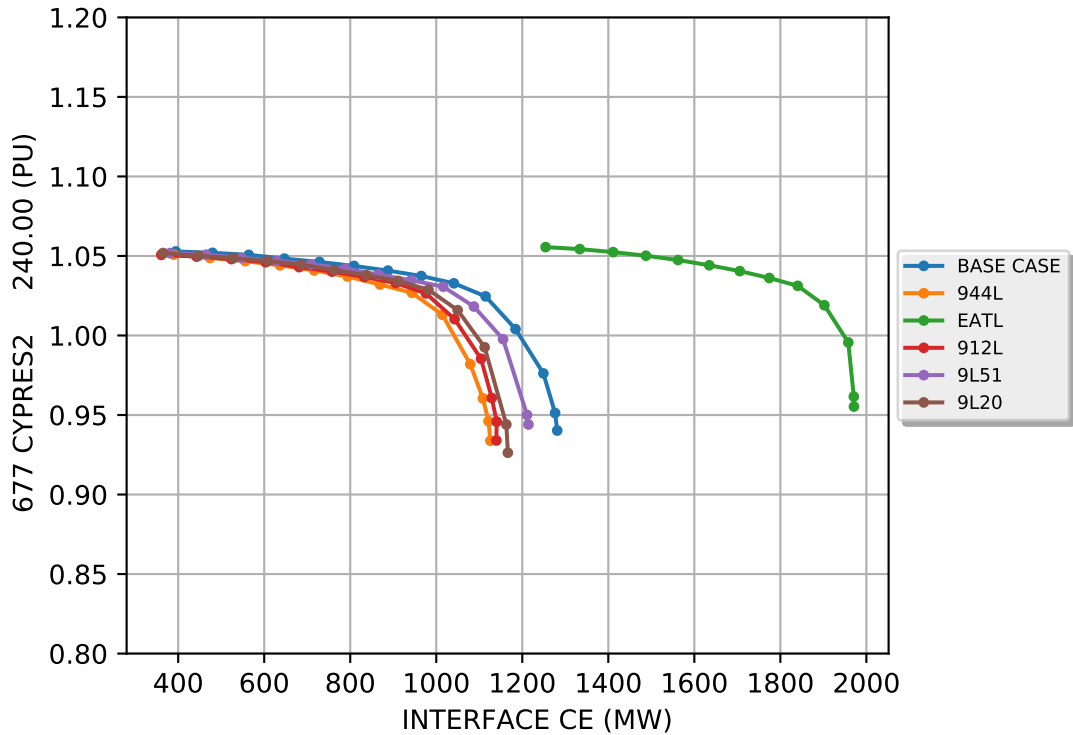


Figure: E-1-156

Case: M11, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 57.2%

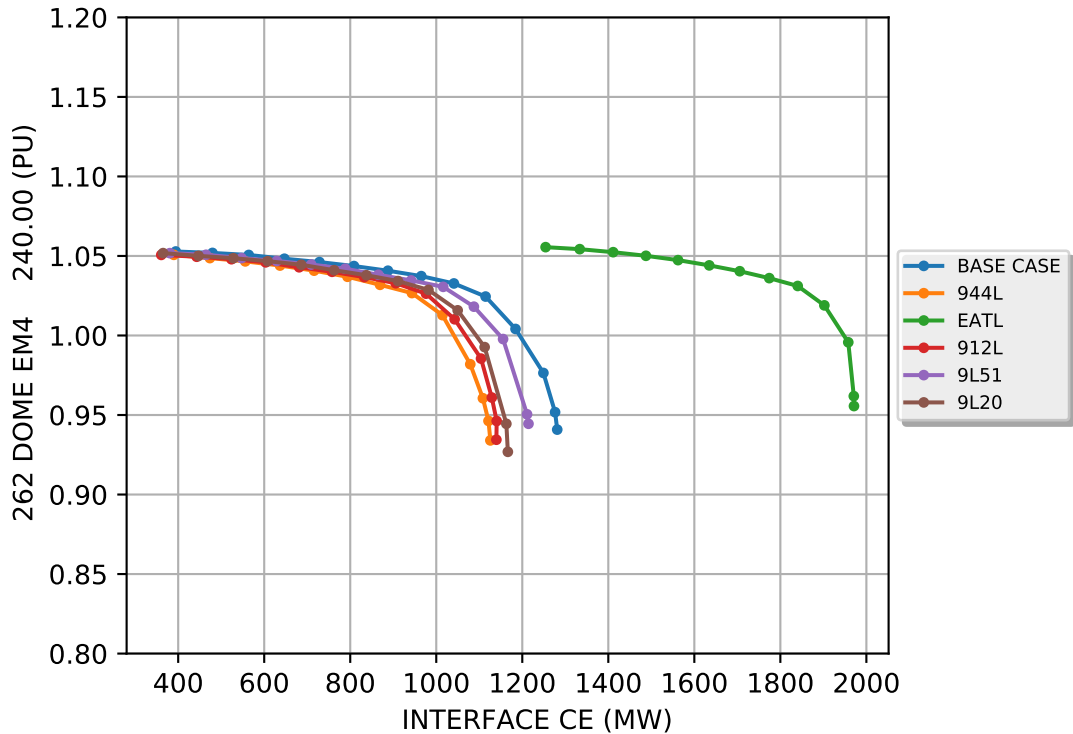


Figure: E-1-157

Case: M11, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 57.2%

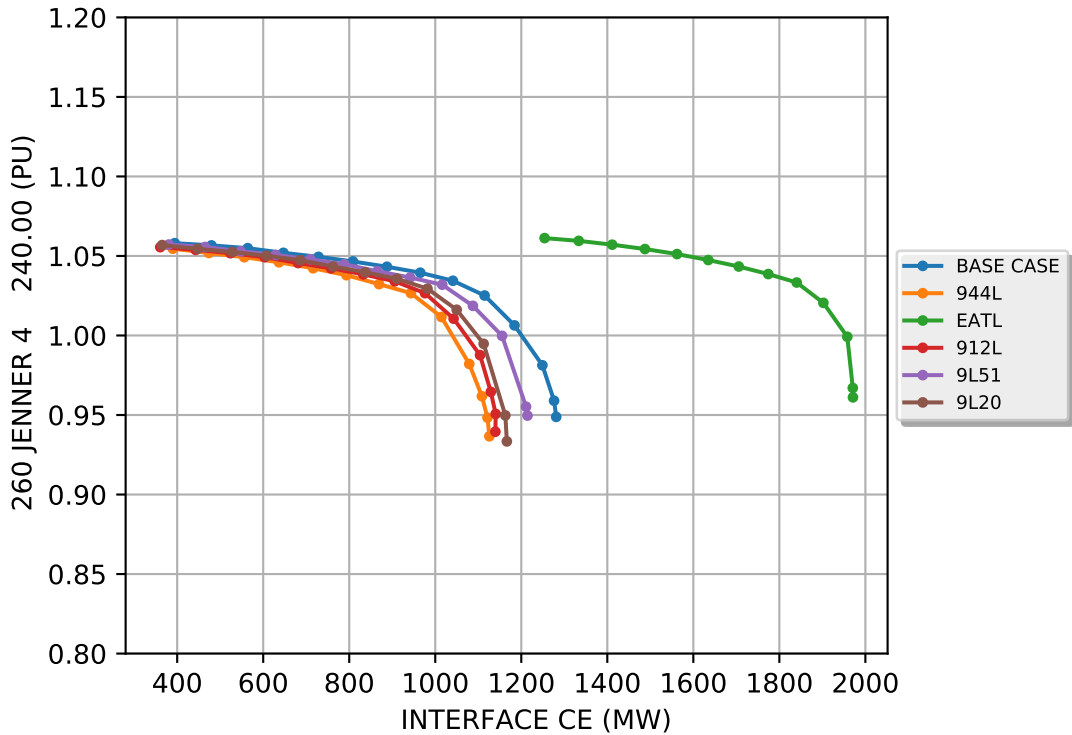


Figure: E-1-158

Case: M11, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 57.2%

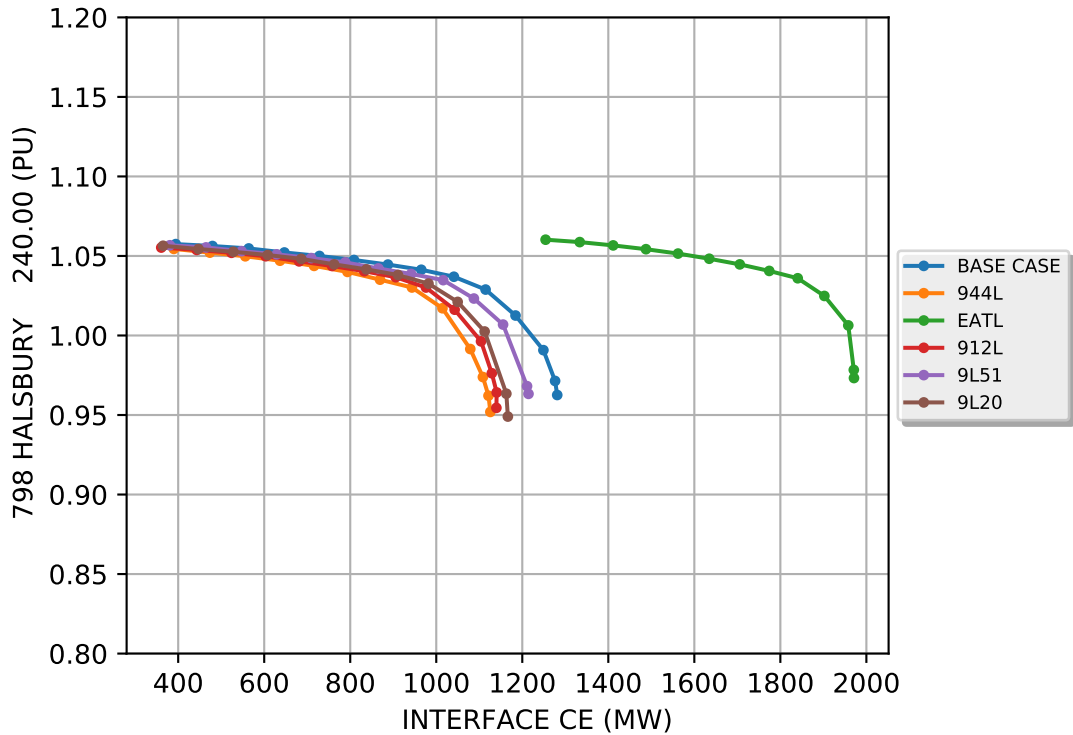


Figure: E-1-159

Case: M11, Option: PRE

Min Voltage: 0.98 PU, Min Margin: 57.2%

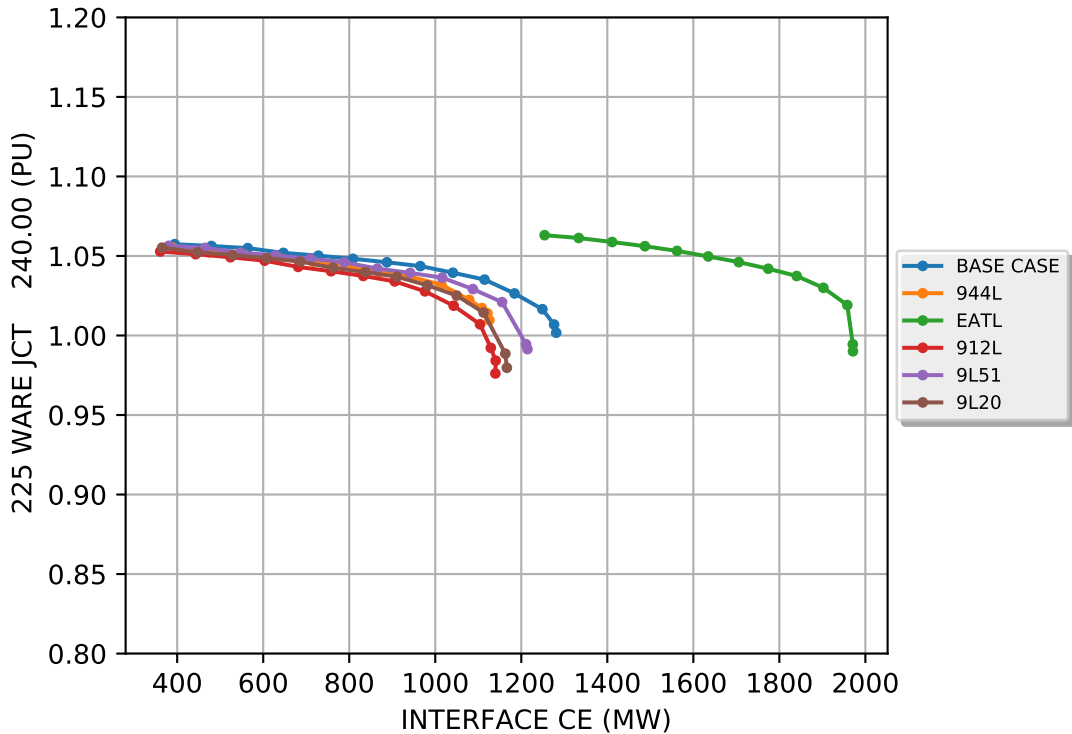


Figure: E-1-160

Case: M11, Option: PRE

Min Voltage: 0.90 PU, Min Margin: 57.2%

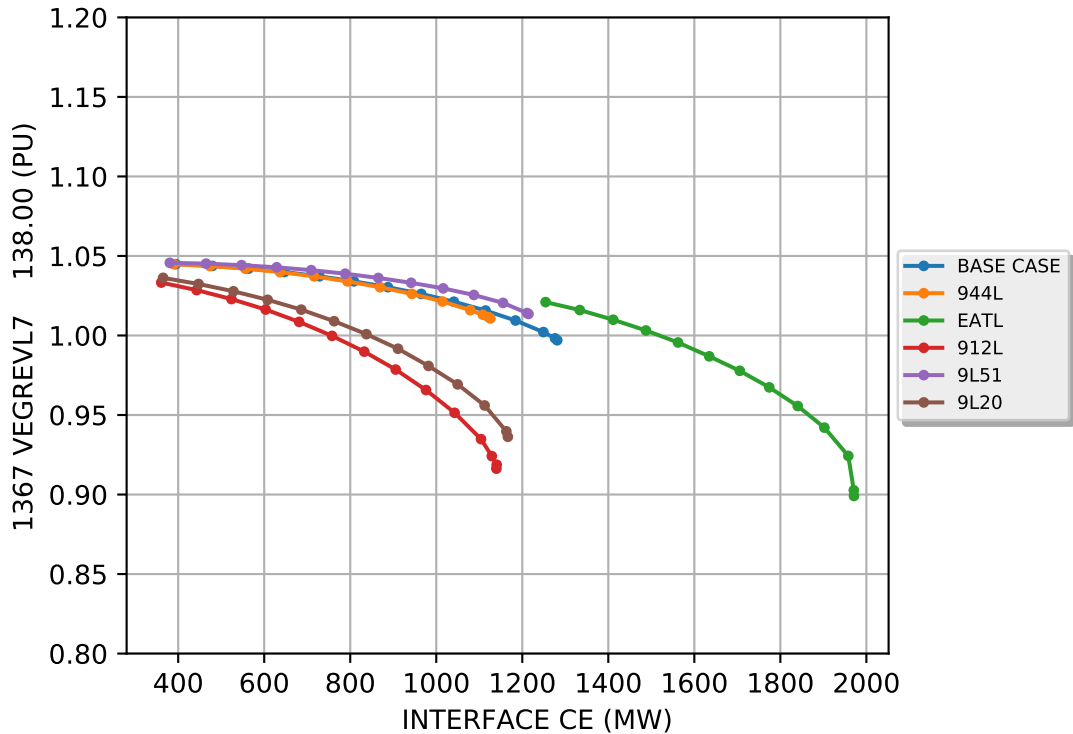


Figure: E-1-161

Case: M11, Option: PRE

Min Voltage: 0.90 PU, Min Margin: 57.2%

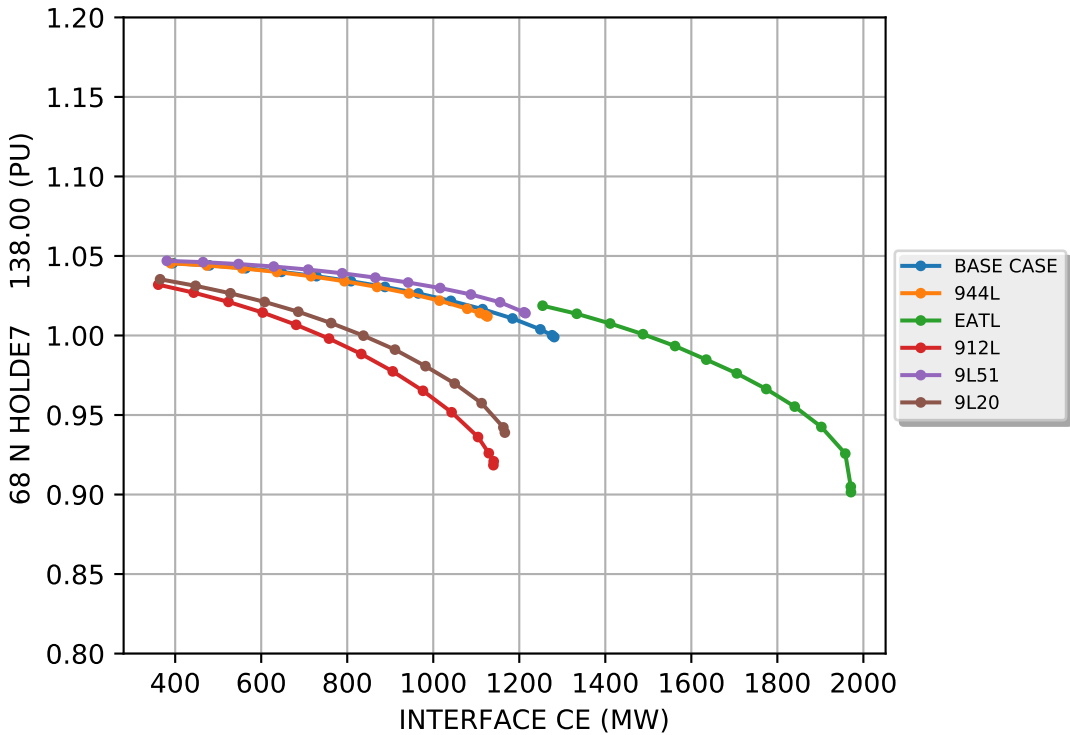


Figure: E-1-162

Case: M11, Option: PRE

Min Voltage: 0.96 PU, Min Margin: 57.2%

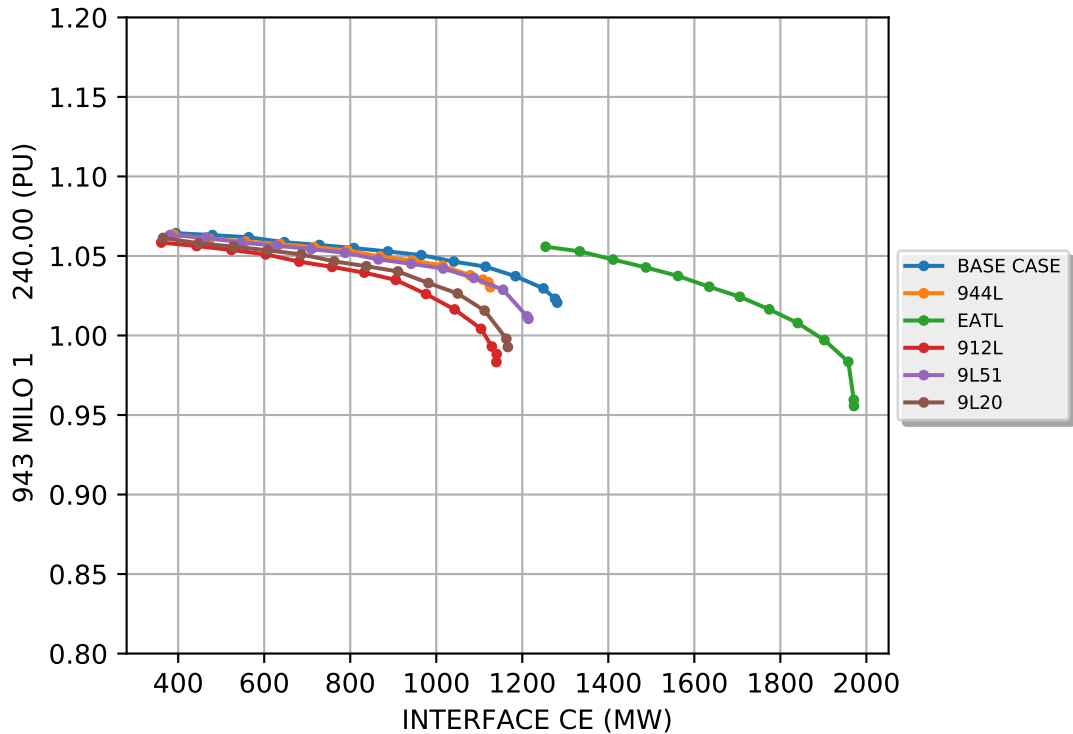


Figure: E-1-163

Case: M12, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 55.5%

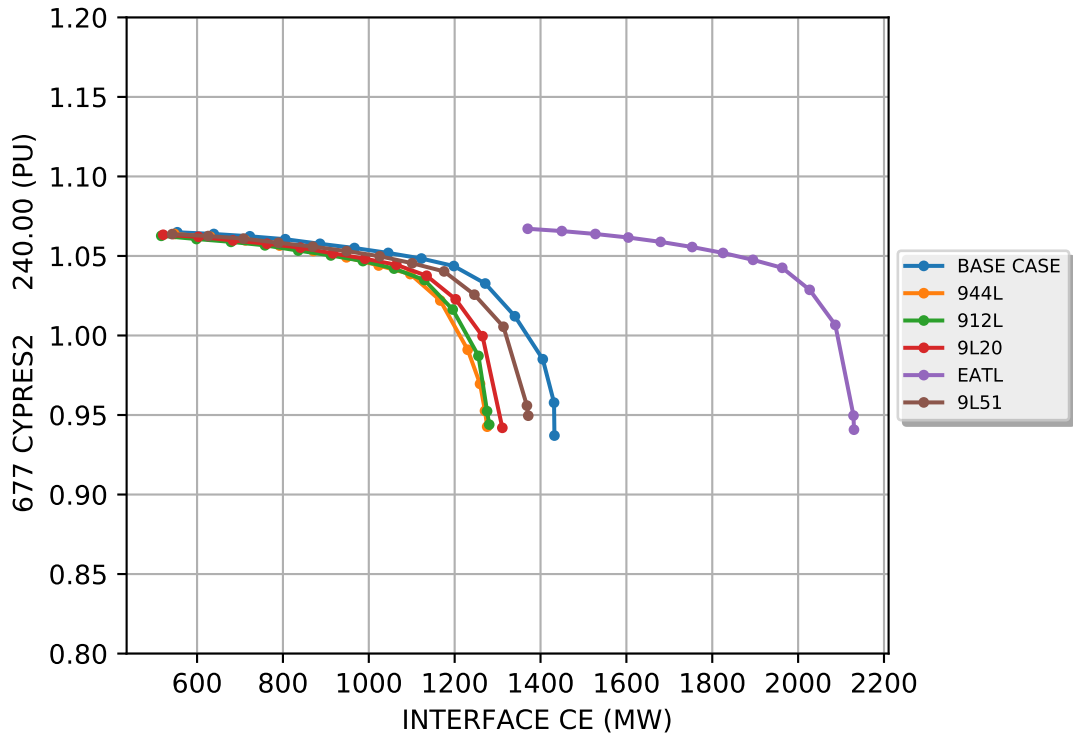


Figure: E-1-164

Case: M12, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 55.5%

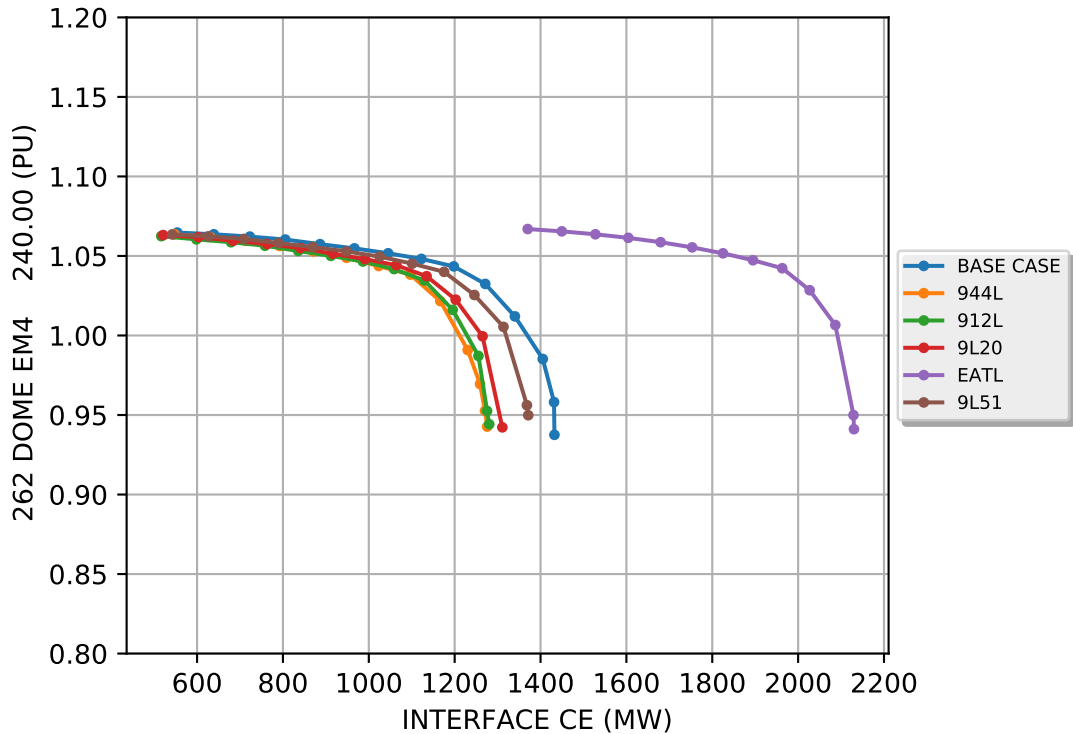


Figure: E-1-165

Case: M12, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 55.5%

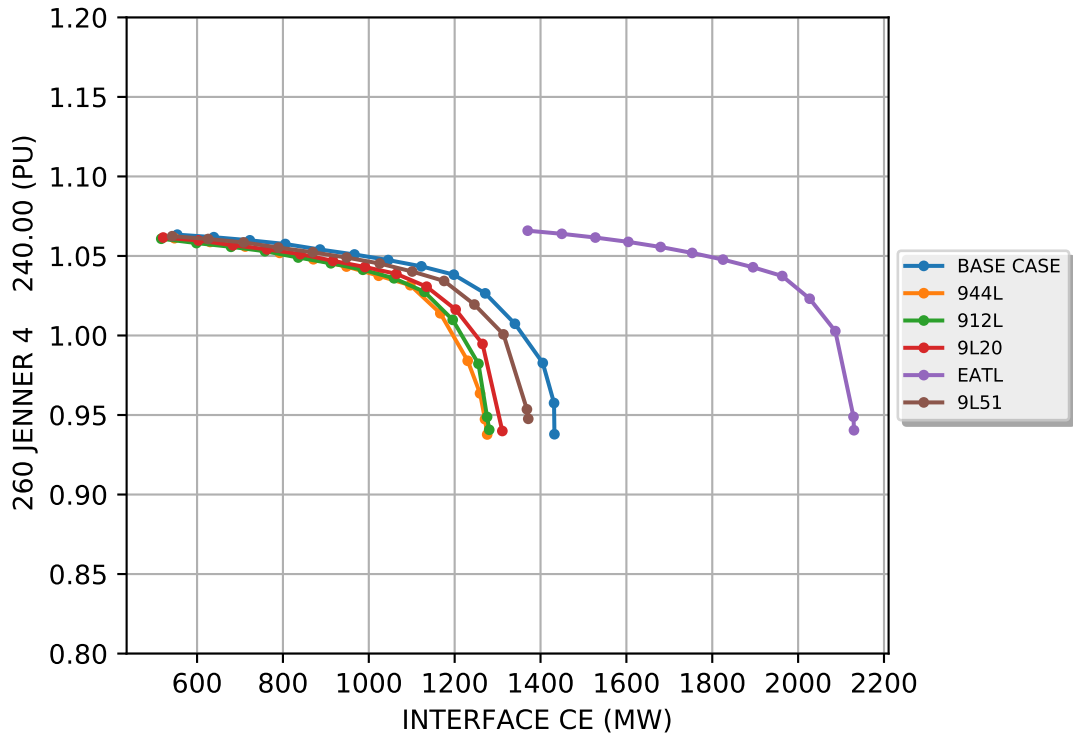


Figure: E-1-166

Case: M12, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 55.5%

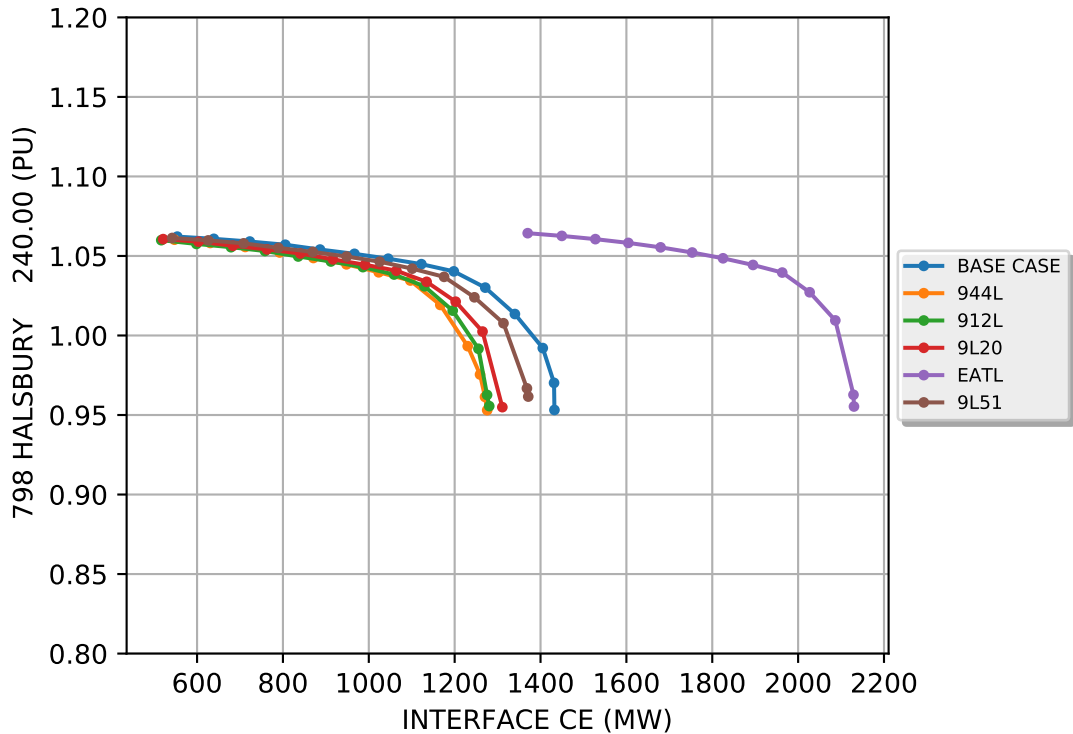


Figure: E-1-167

Case: M12, Option: PRE

Min Voltage: 0.97 PU, Min Margin: 55.5%

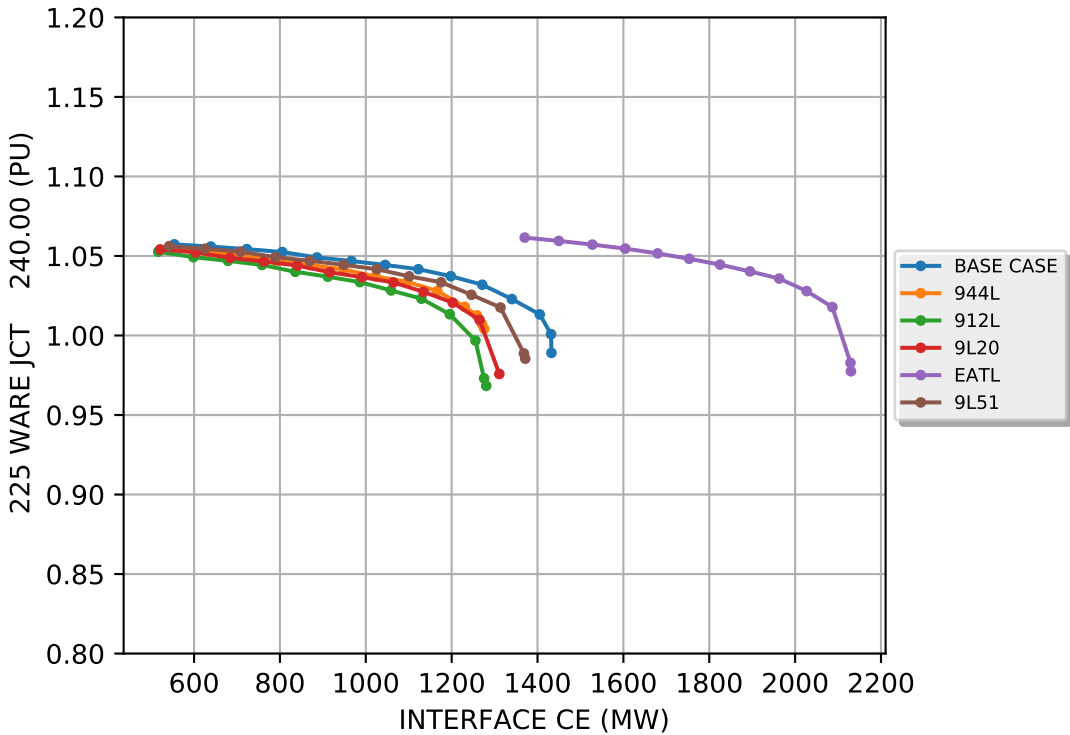


Figure: E-1-168

Case: M12, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 55.5%

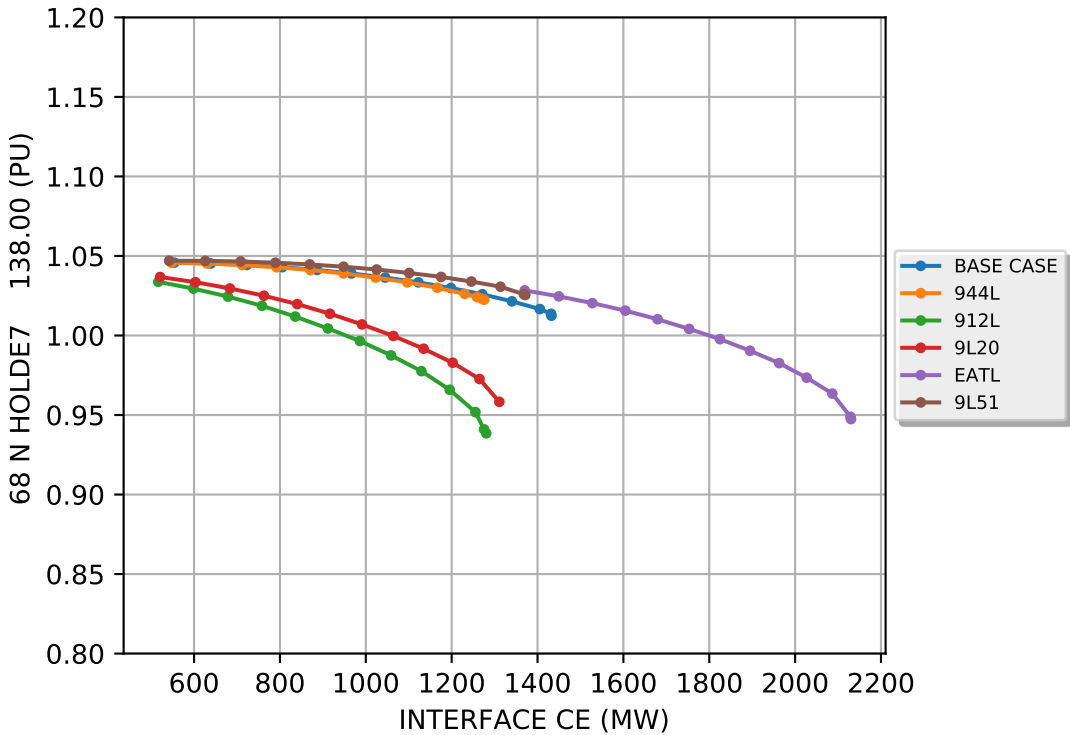


Figure: E-1-169

Case: M12, Option: PRE

Min Voltage: 0.96 PU, Min Margin: 55.5%

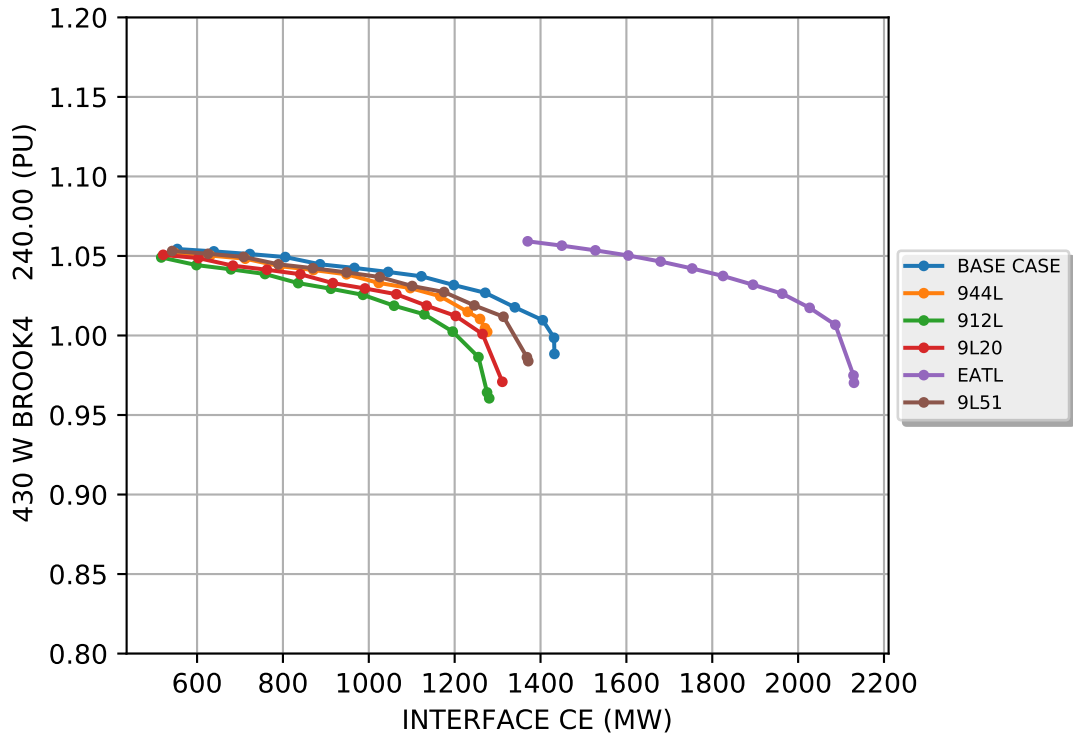
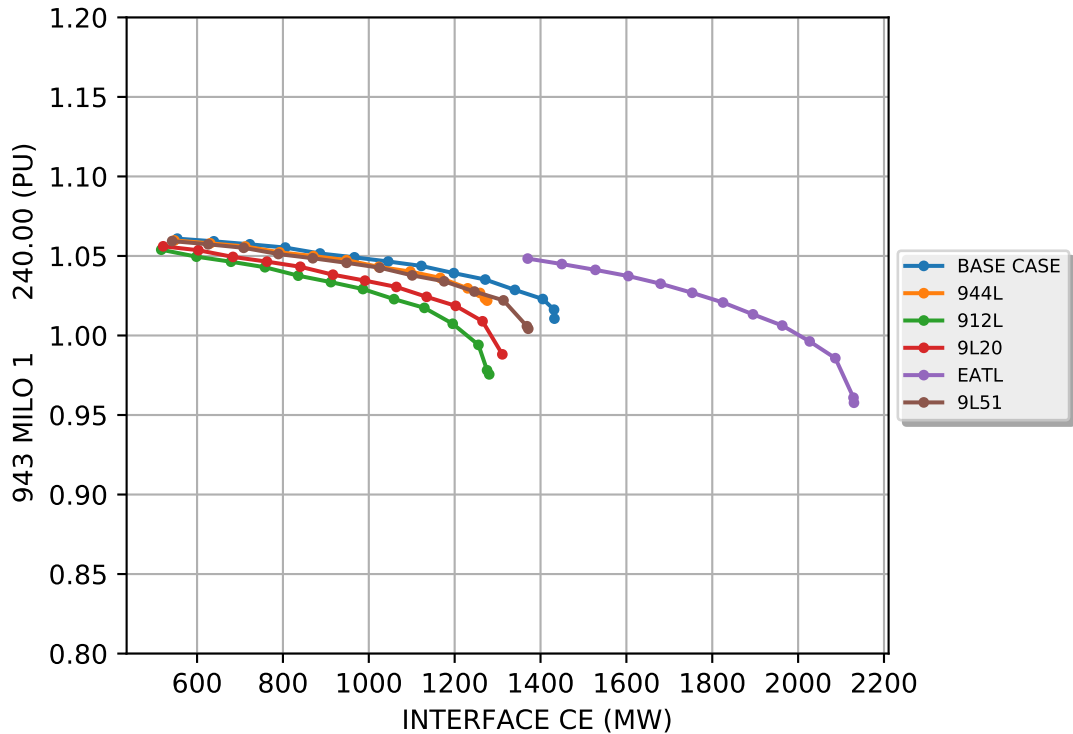


Figure: E-1-170

Case: M12, Option: PRE

Min Voltage: 0.96 PU, Min Margin: 55.5%



Worst Case Summaries:

Min Voltage: 0.90 PU, Page: 134

Min Margin: 18.1%, Page: 2

Min Margin Maximum 0.9 PU Voltage: 18.1%, Page: 2

Voltages above 1.1 PU in pages:

Attachment E-2 - PV Results

CE, Option: Post CRPC + CETO 1 Ckt, Cat. B

Figure: E-2-1

Case: H6, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 58.9%

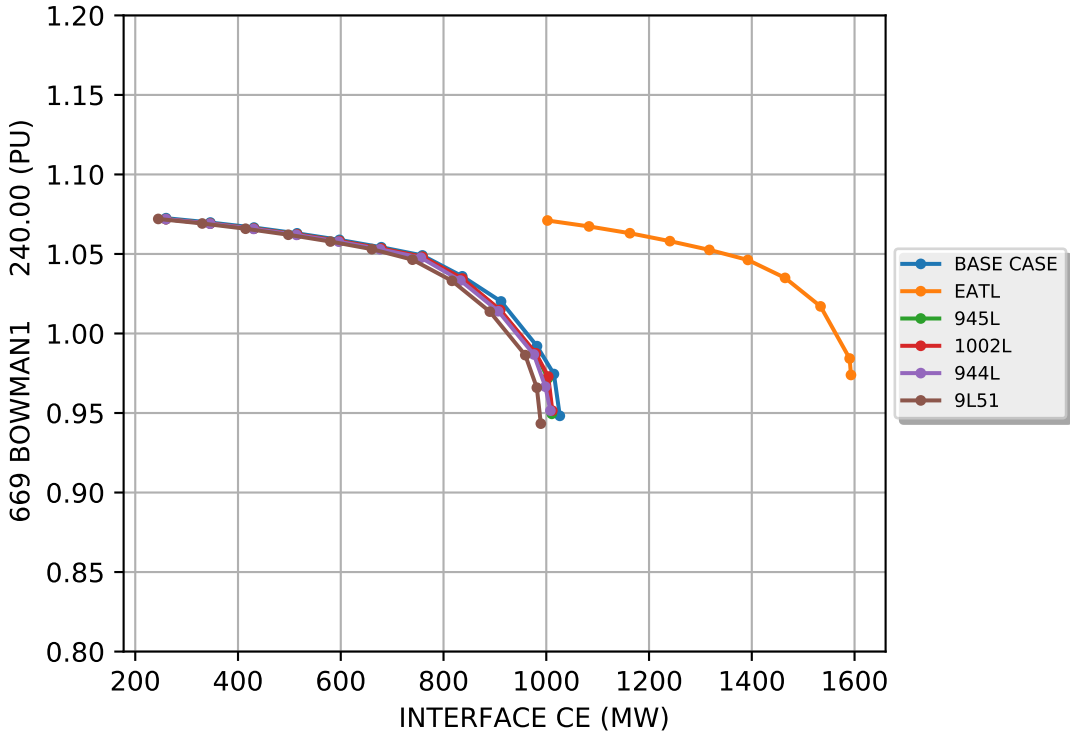


Figure: E-2-2

Case: H6, Option: BOTH

Min Voltage: 0.98 PU, Min Margin: 58.9%

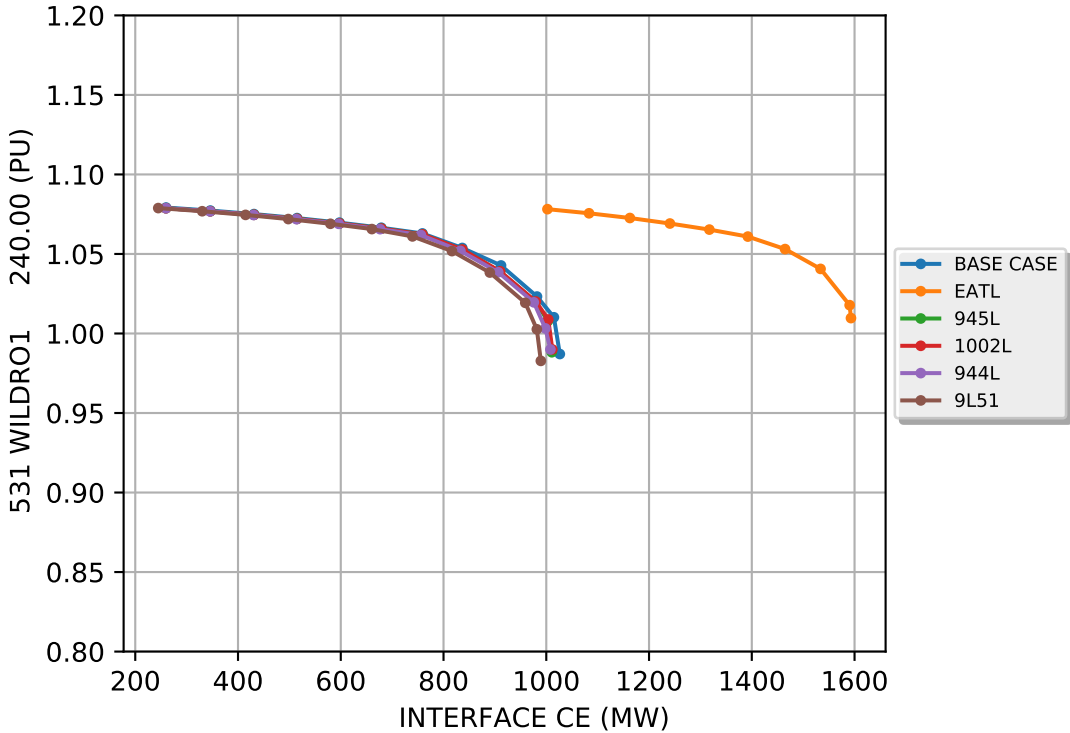


Figure: E-2-3

Case: H6, Option: BOTH

Min Voltage: 0.98 PU, Min Margin: 58.9%

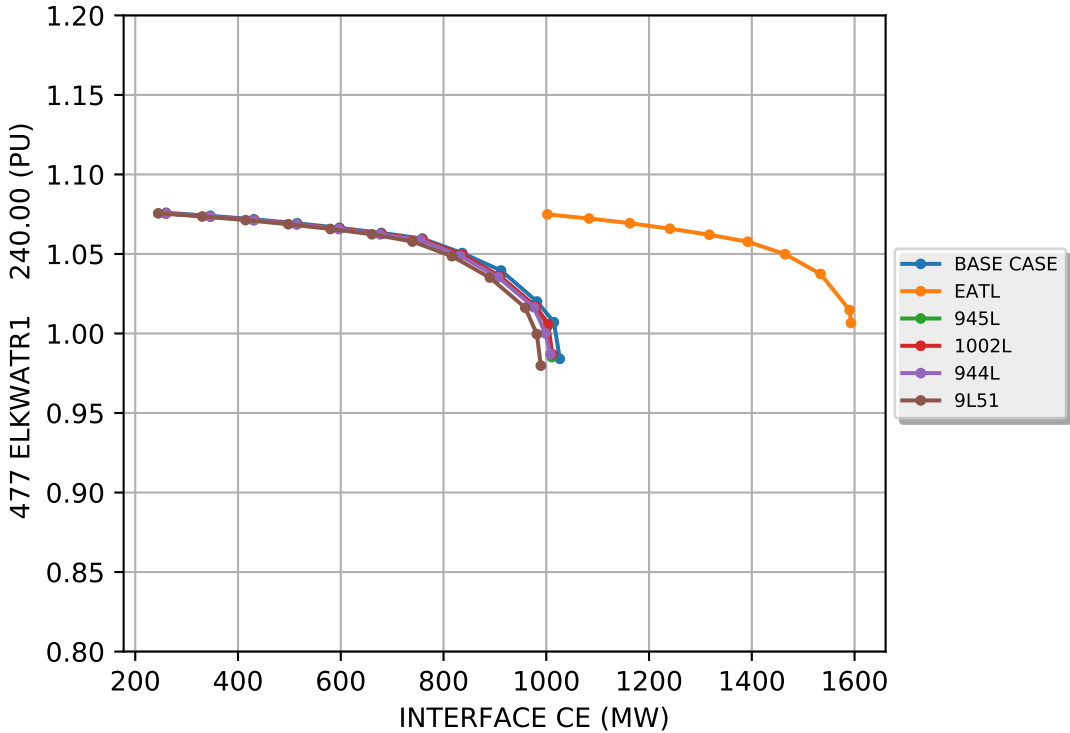


Figure: E-2-4

Case: H6, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 58.9%

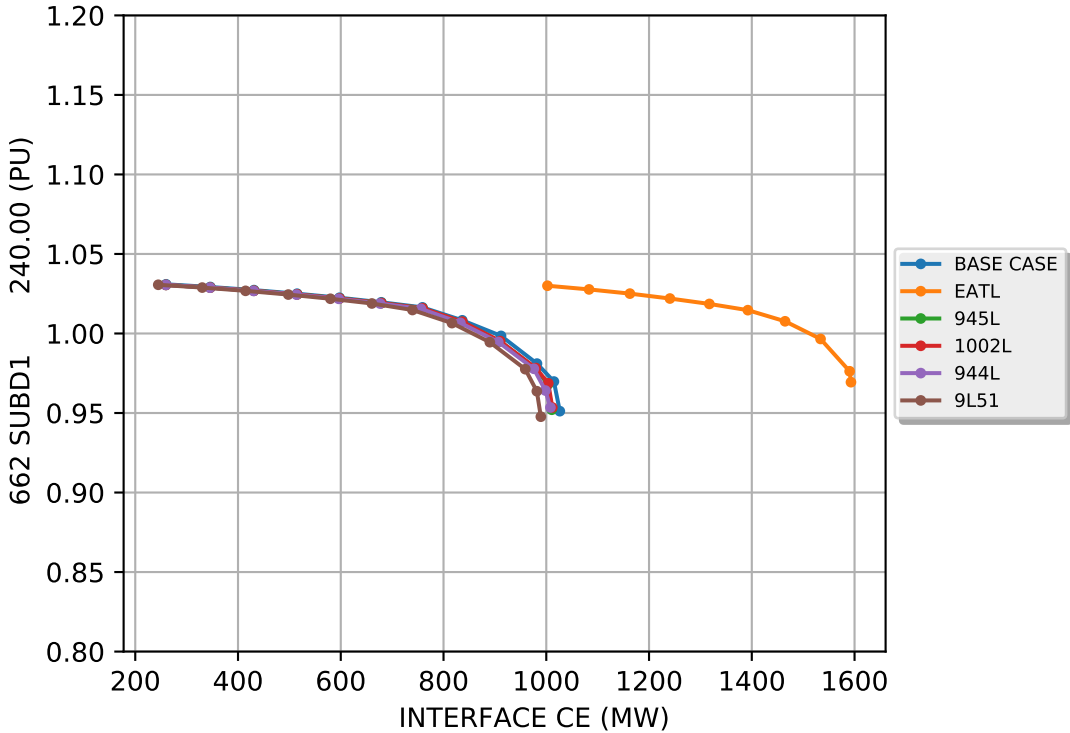


Figure: E-2-5

Case: H6, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 58.9%

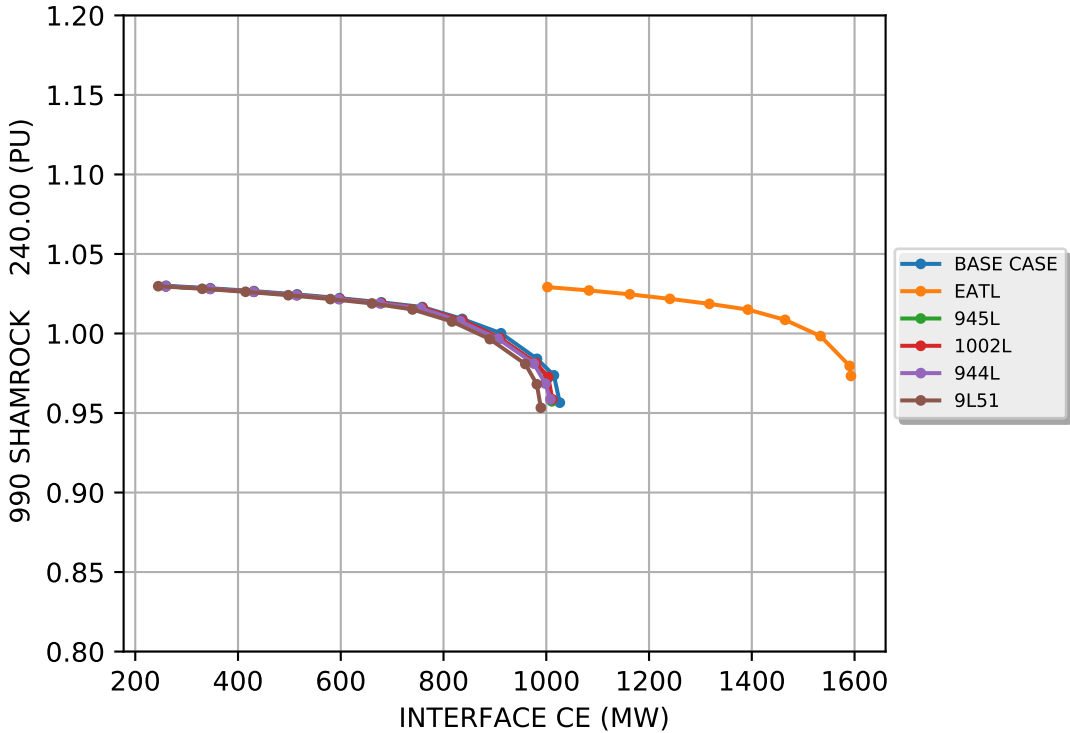


Figure: E-2-6

Case: H6, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 58.9%

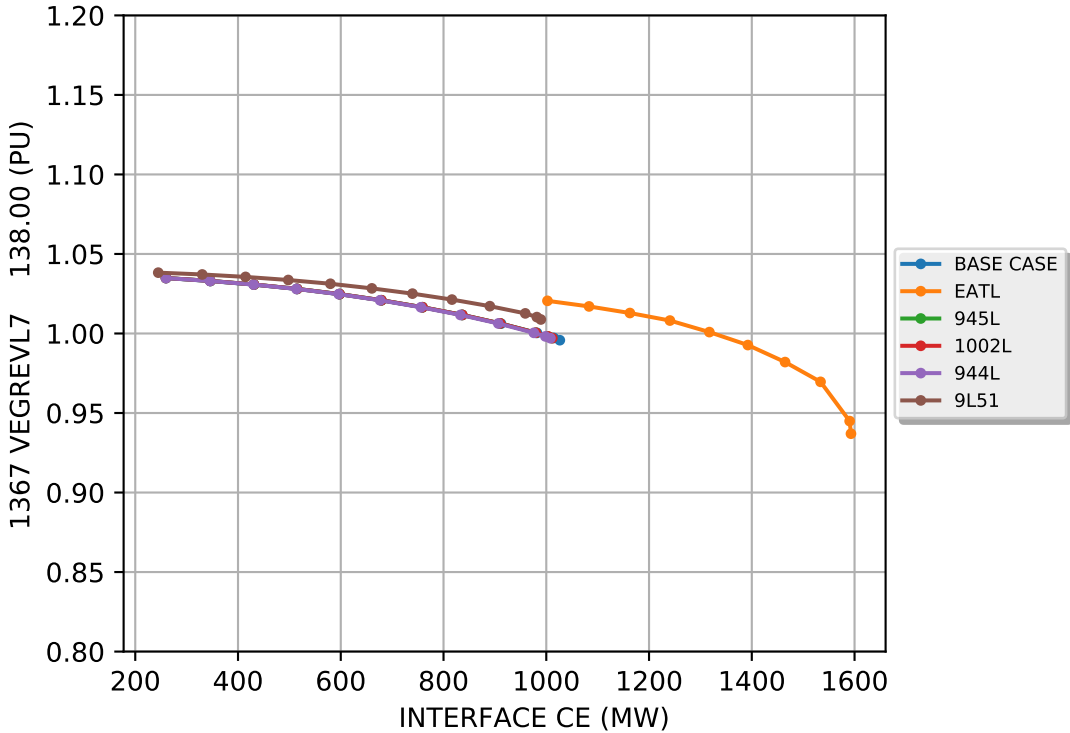


Figure: E-2-7

Case: H6, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 58.9%

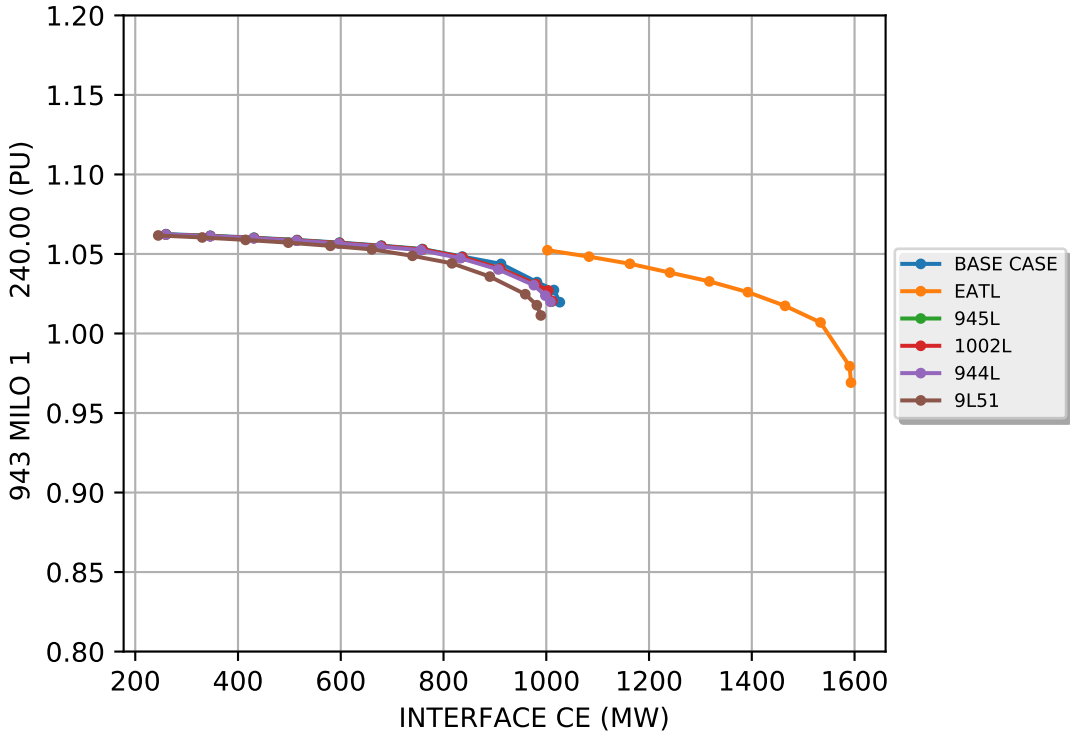


Figure: E-2-8

Case: H6, Option: BOTH

Min Voltage: 0.98 PU, Min Margin: 58.9%

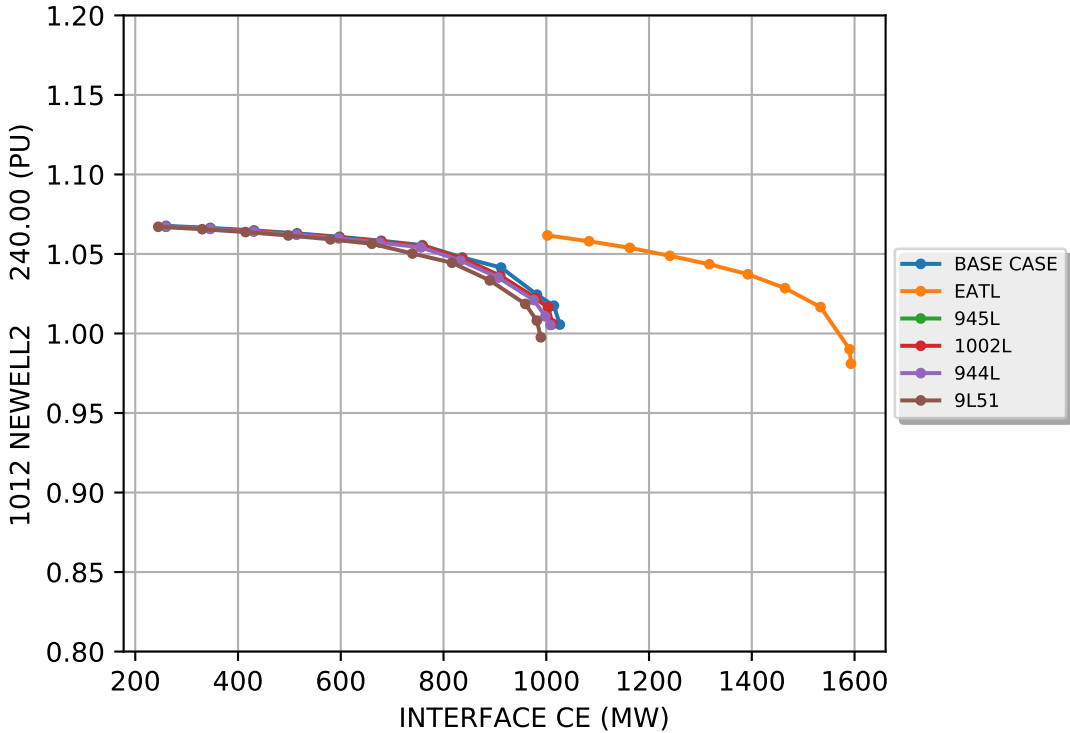


Figure: E-2-9

Case: H6, Option: BOTH

Min Voltage: 0.98 PU, Min Margin: 58.9%

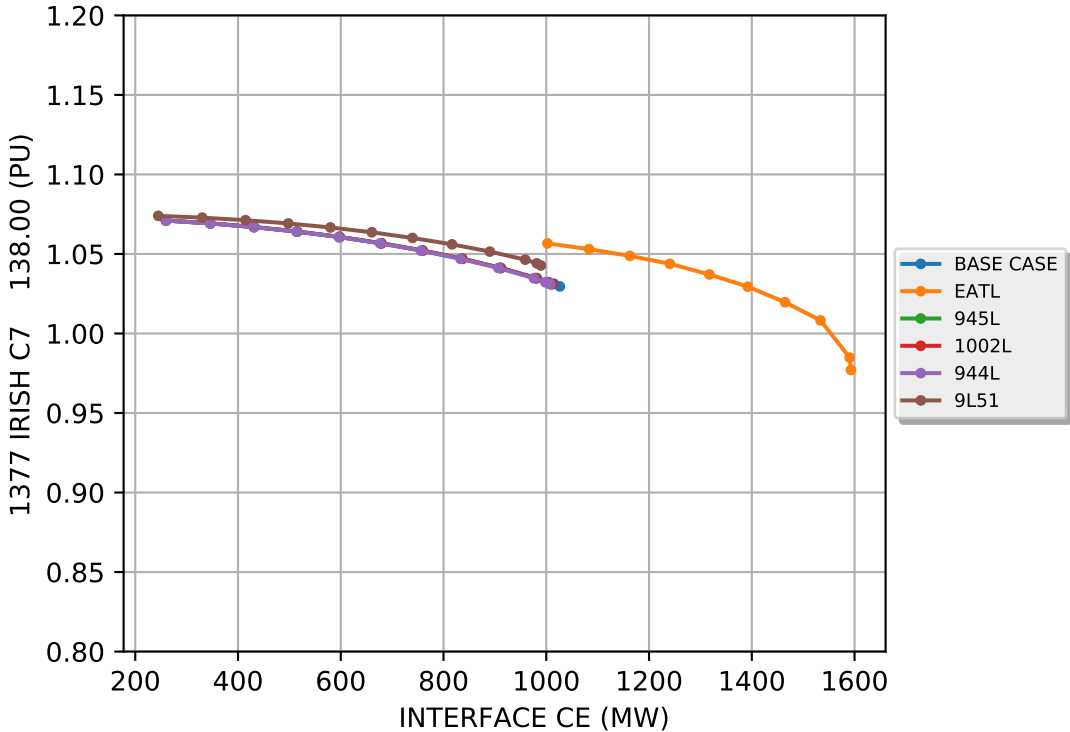


Figure: E-2-10

Case: H6, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 58.9%

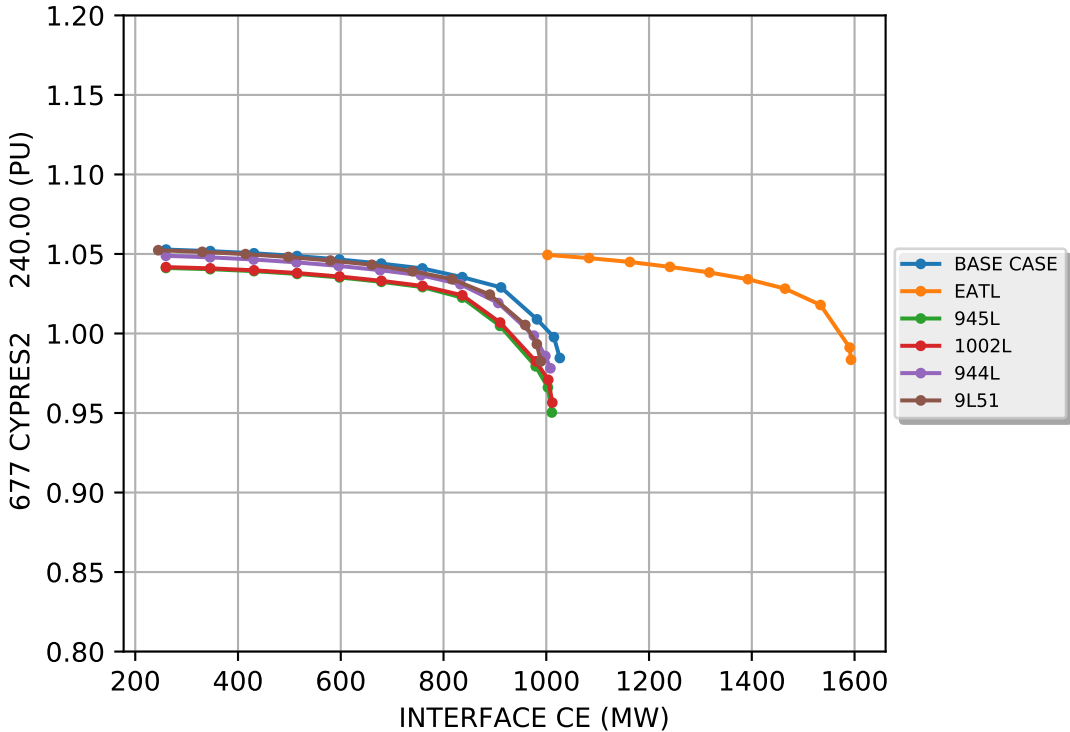


Figure: E-2-11

Case: H6, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 58.9%

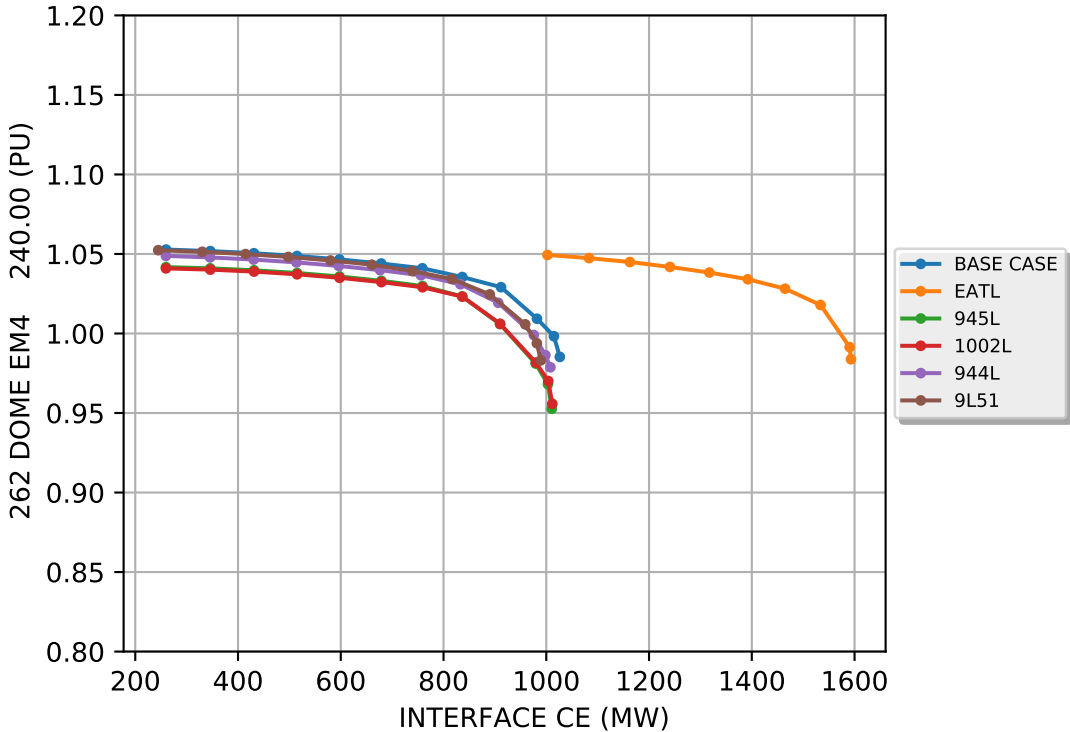


Figure: E-2-12

Case: H5, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 23.1%

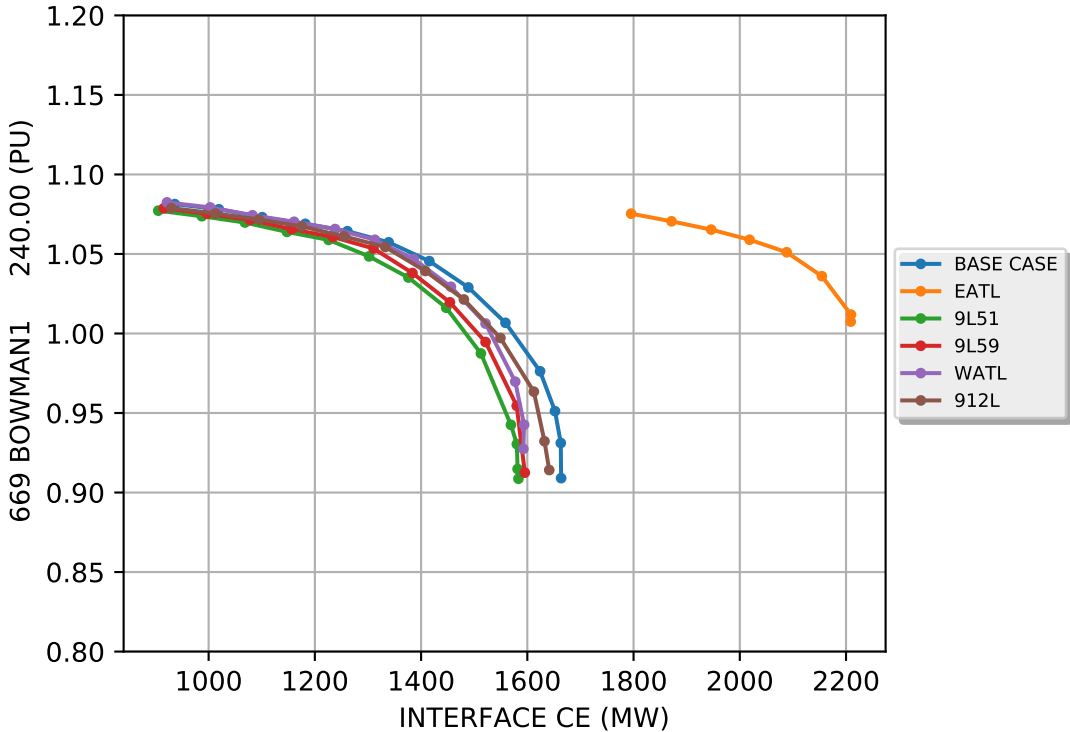


Figure: E-2-13

Case: H5, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 23.1%

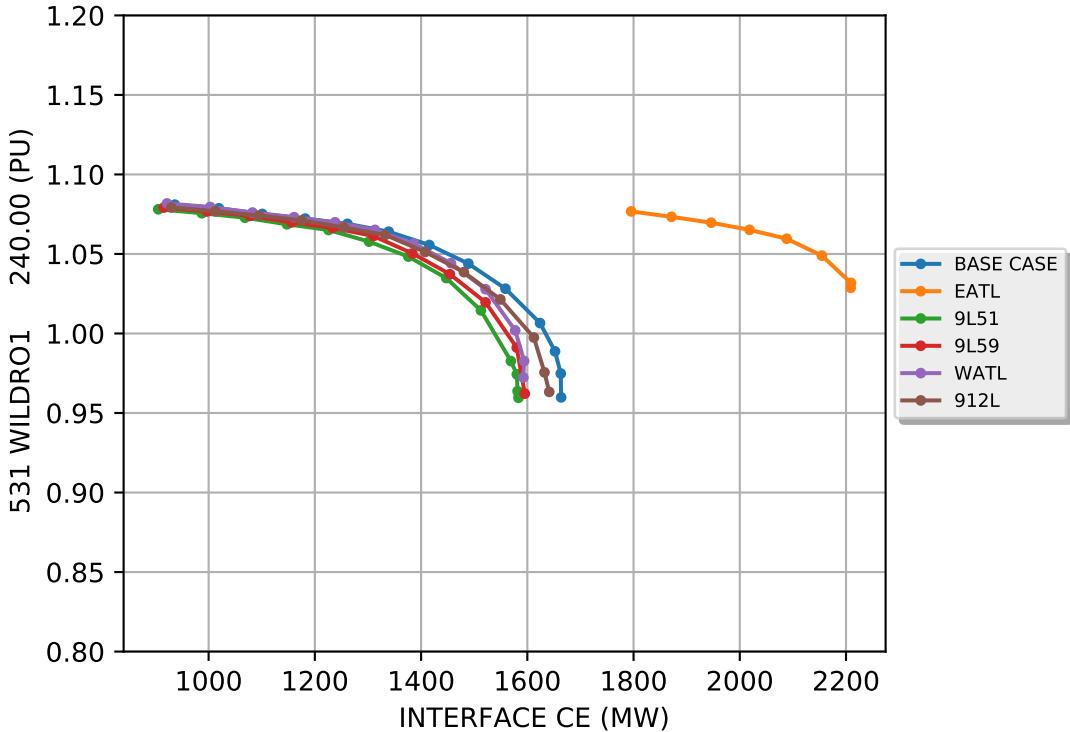


Figure: E-2-14

Case: H5, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 23.1%

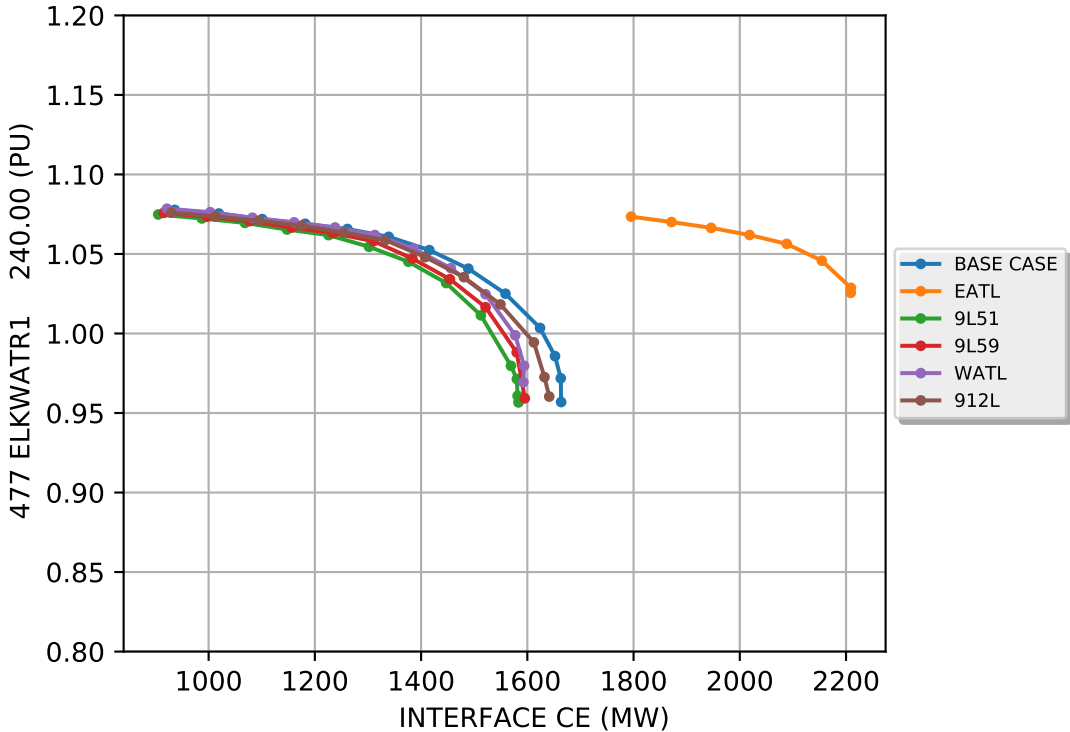


Figure: E-2-15

Case: H5, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 23.1%

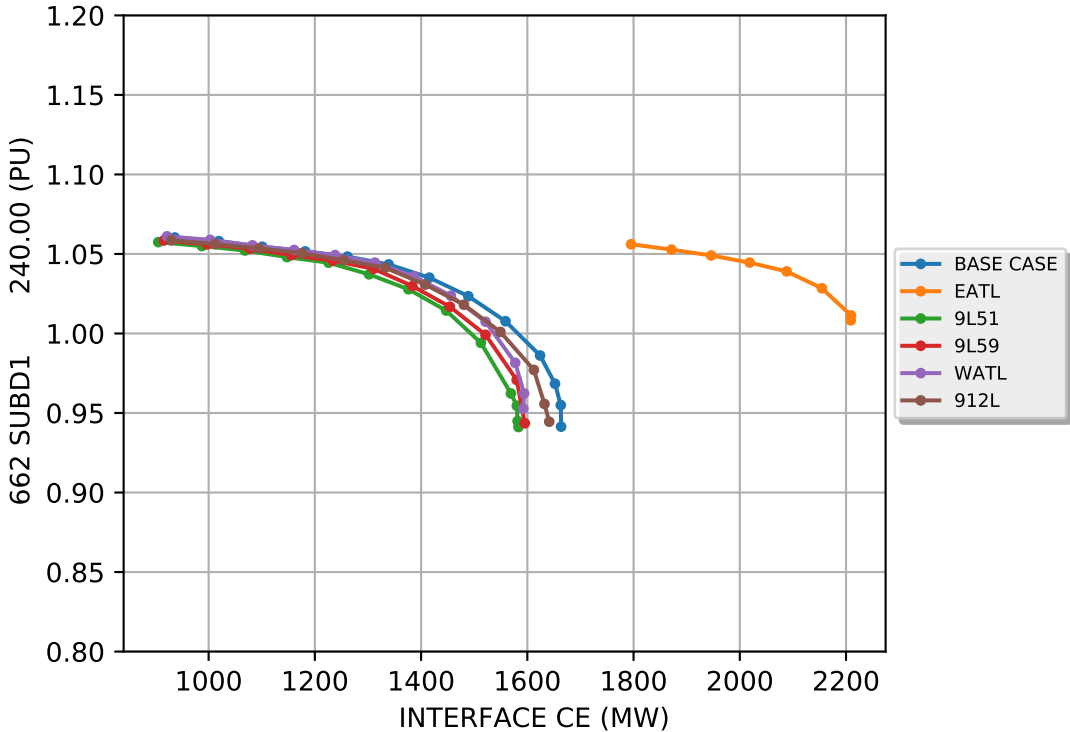


Figure: E-2-16

Case: H5, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 23.1%

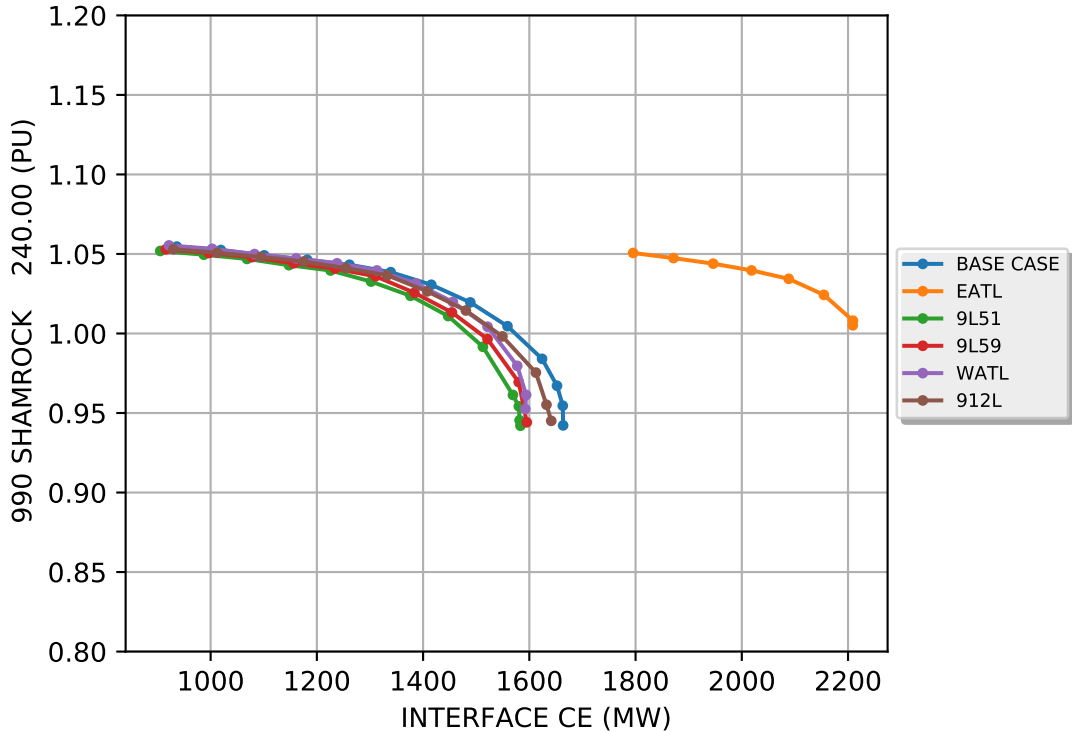


Figure: E-2-17

Case: H5, Option: BOTH

Min Voltage: 0.88 PU, Min Margin: 23.1%

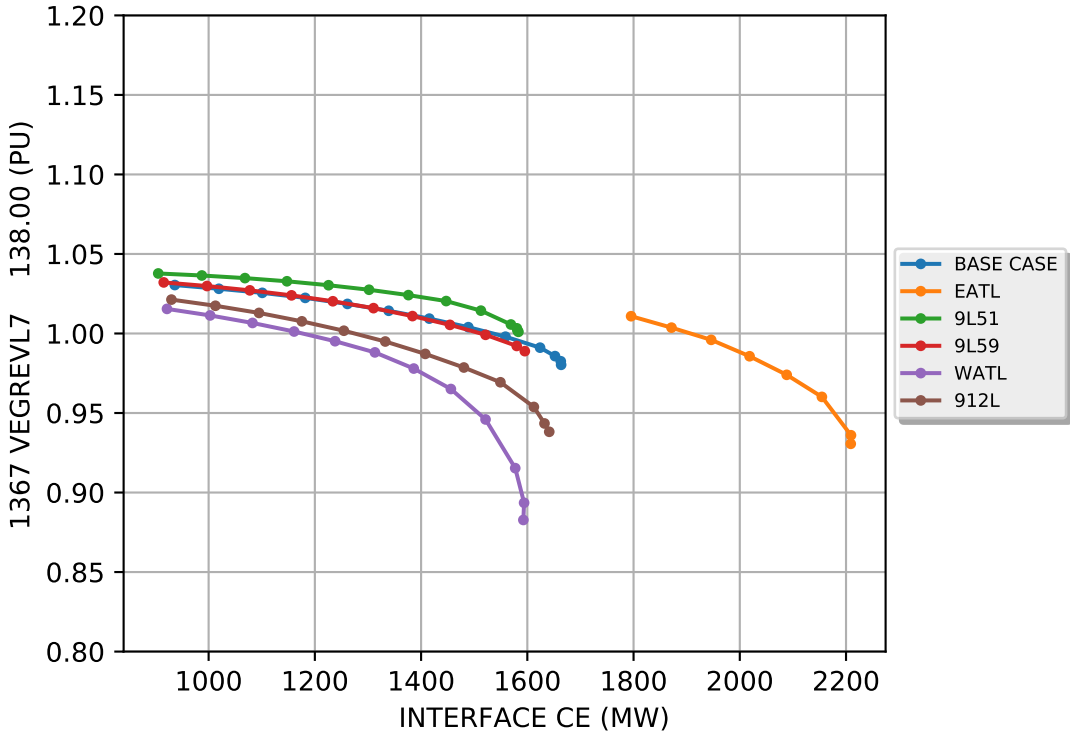


Figure: E-2-18

Case: H5, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 23.1%

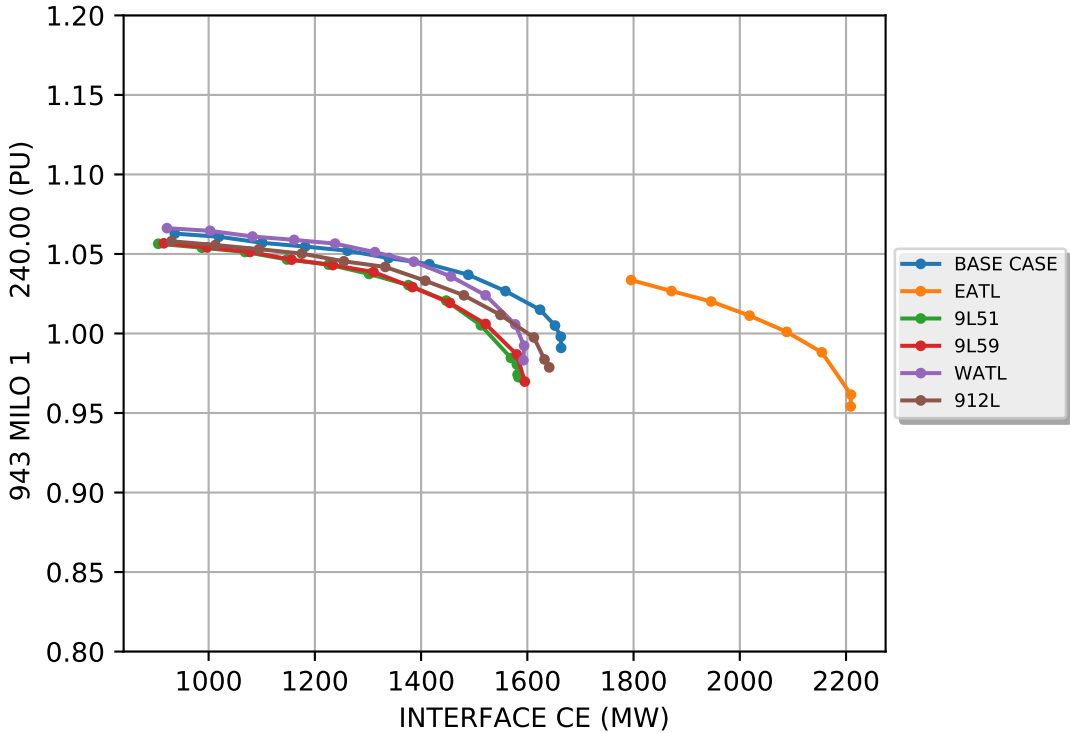


Figure: E-2-19

Case: H5, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 23.1%

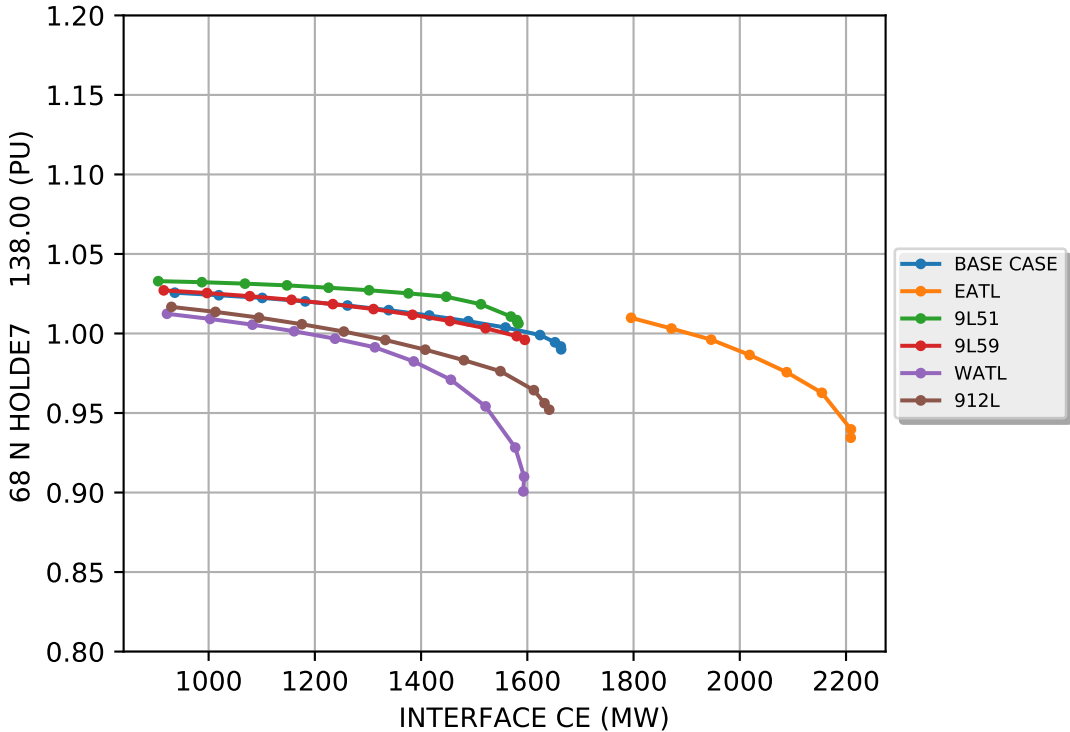


Figure: E-2-20

Case: H5, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 23.1%

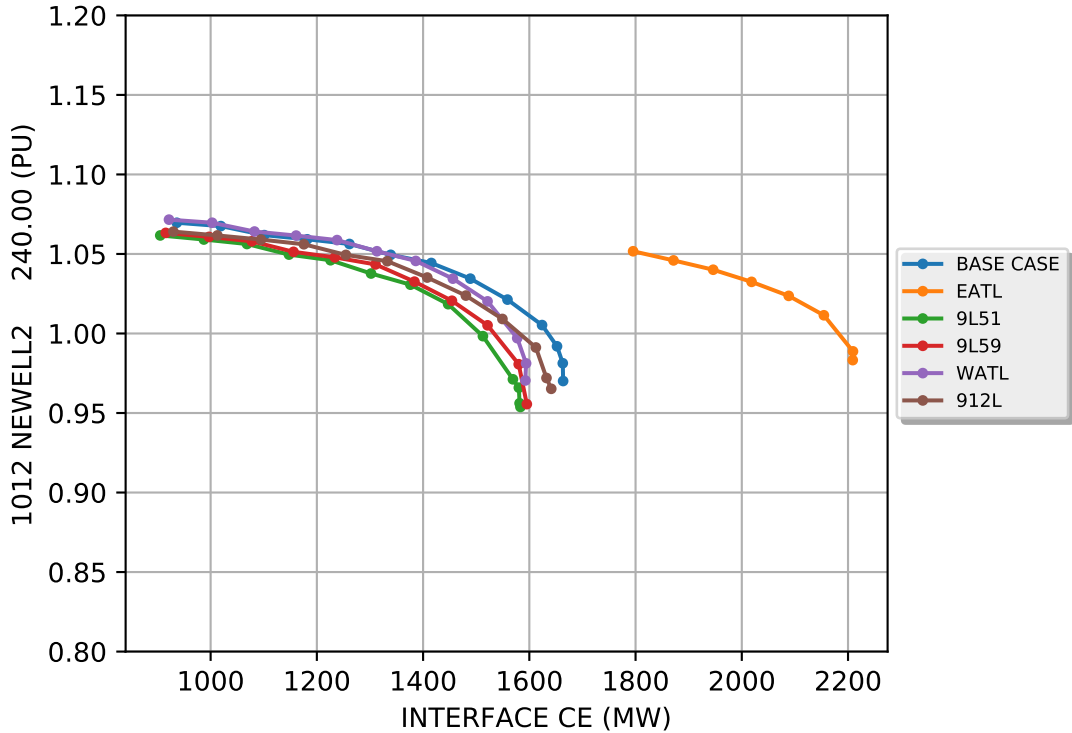


Figure: E-2-21

Case: H5, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 23.1%

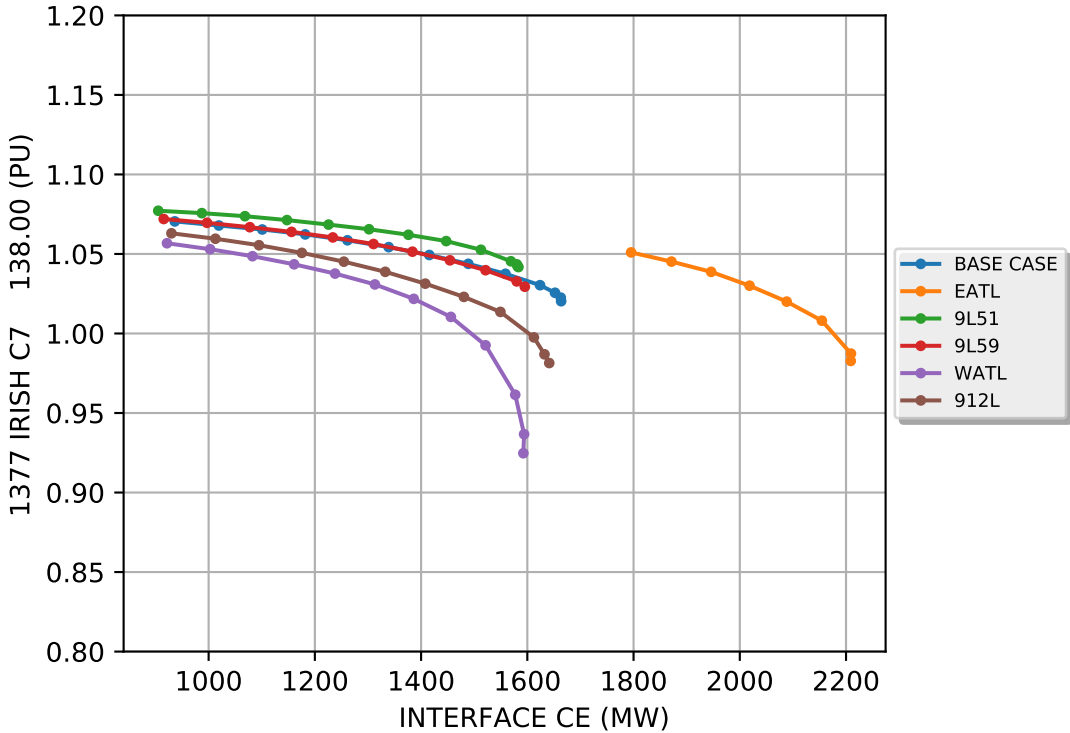


Figure: E-2-22

Case: H5, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 23.1%

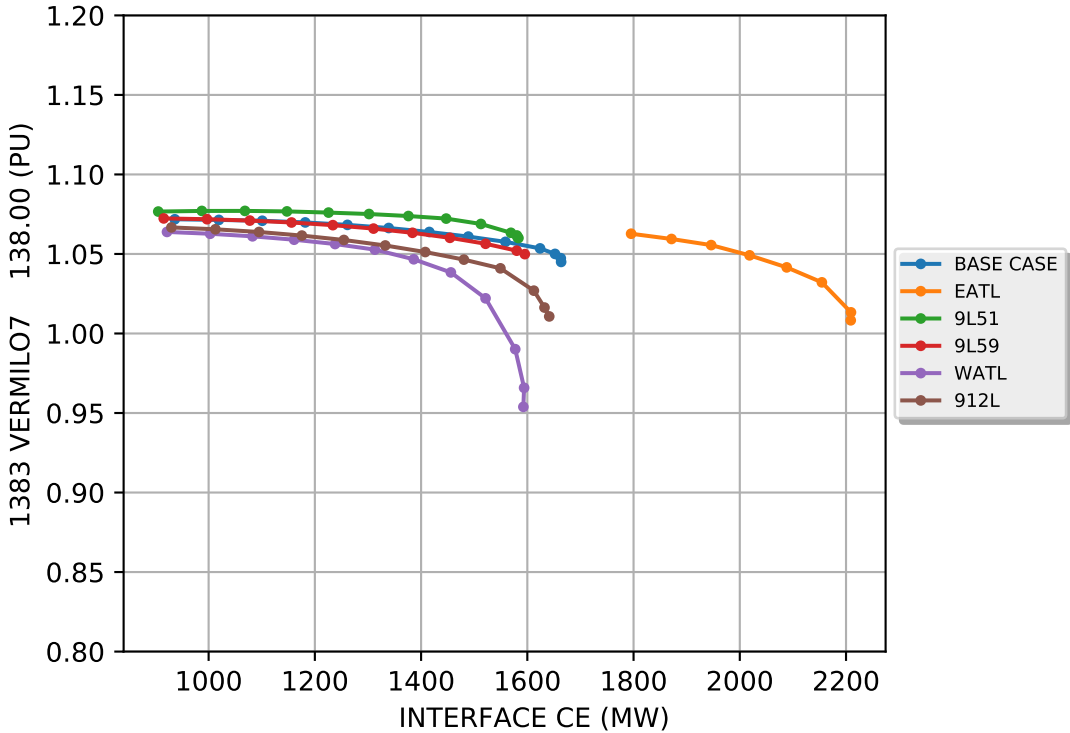


Figure: E-2-23

Case: H7, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 29.4%

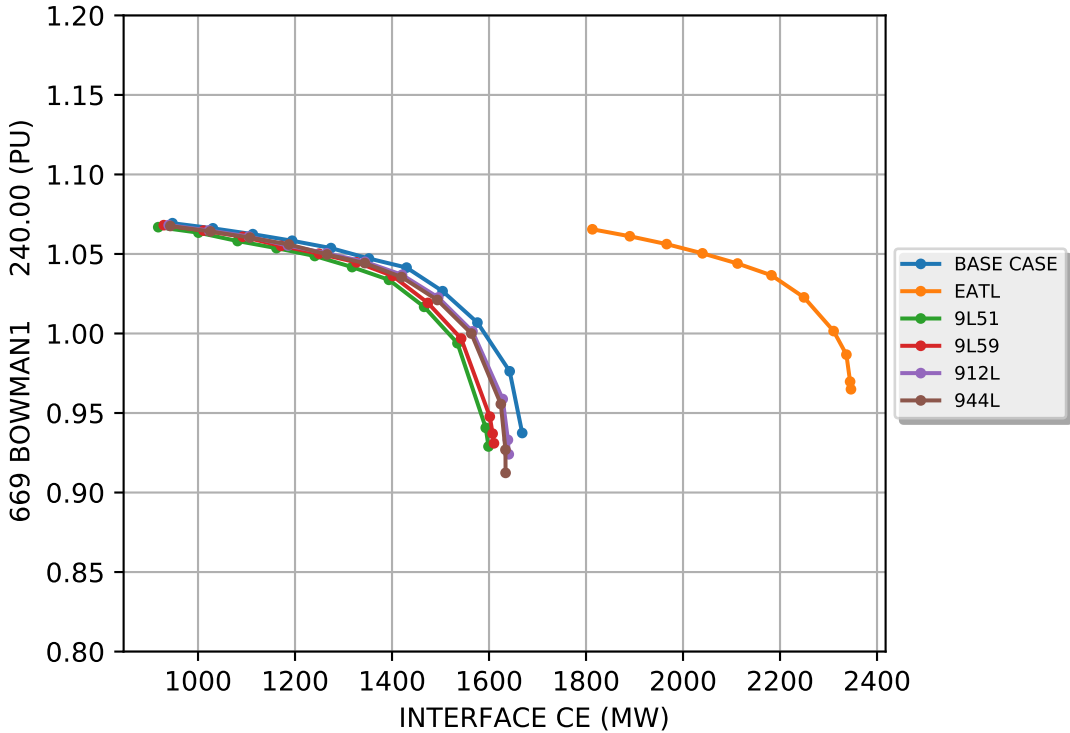


Figure: E-2-24

Case: H7, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 29.4%

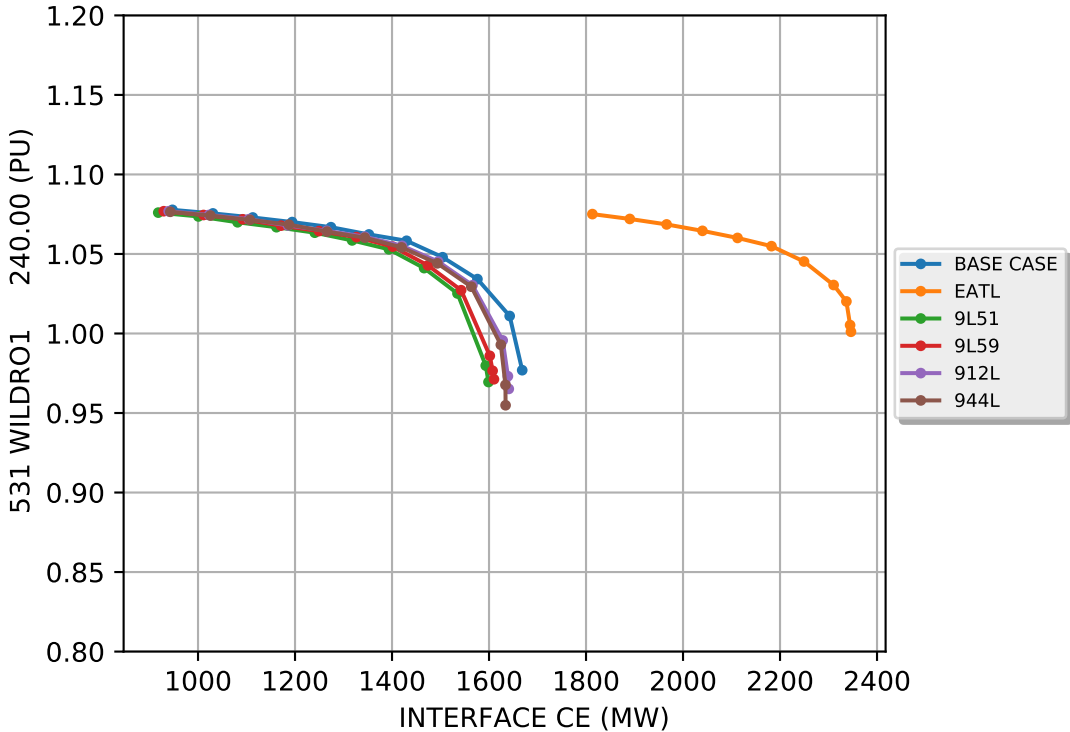


Figure: E-2-25

Case: H7, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 29.4%

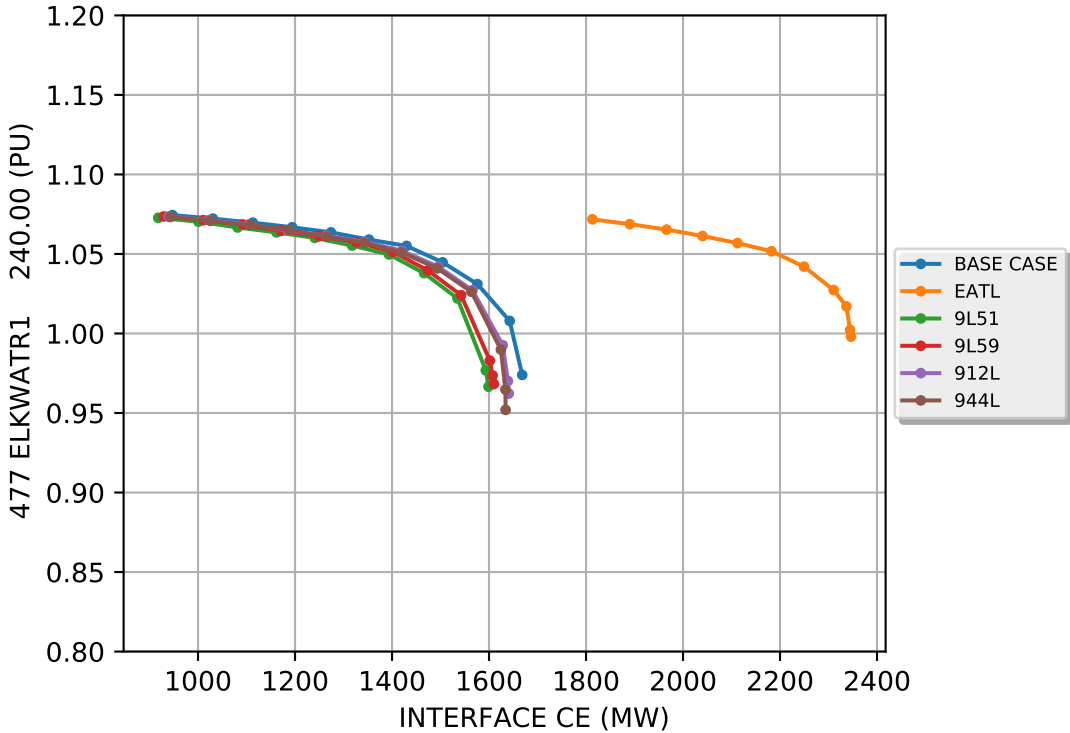


Figure: E-2-26

Case: H7, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 29.4%

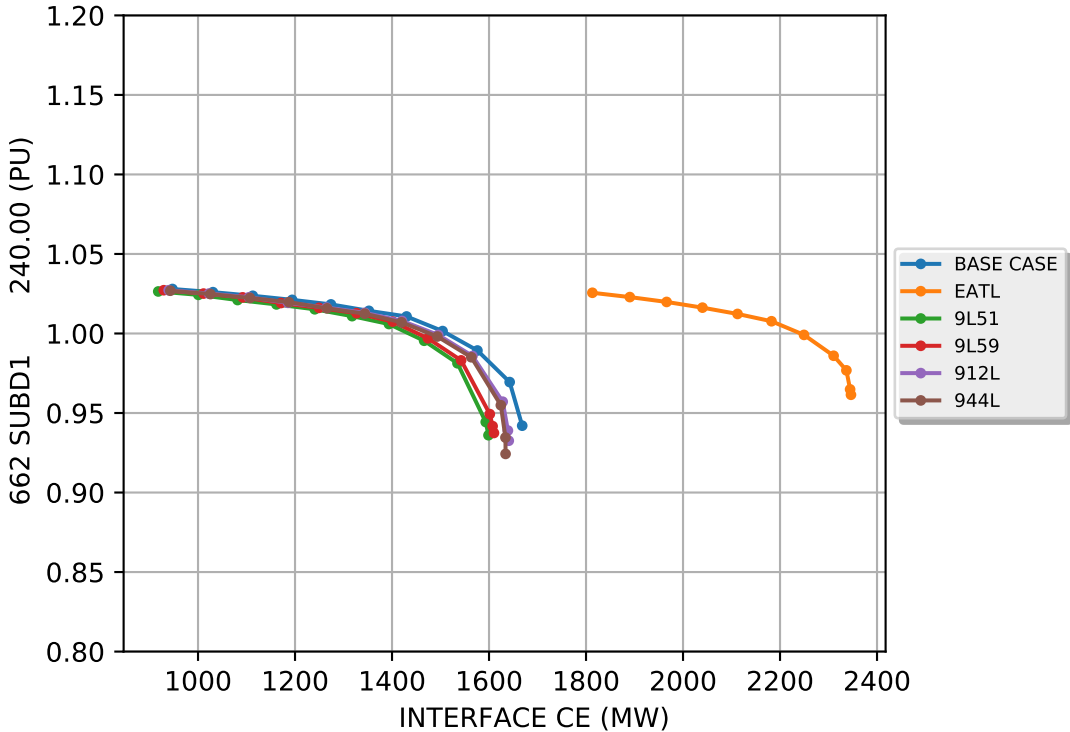


Figure: E-2-27

Case: H7, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 29.4%

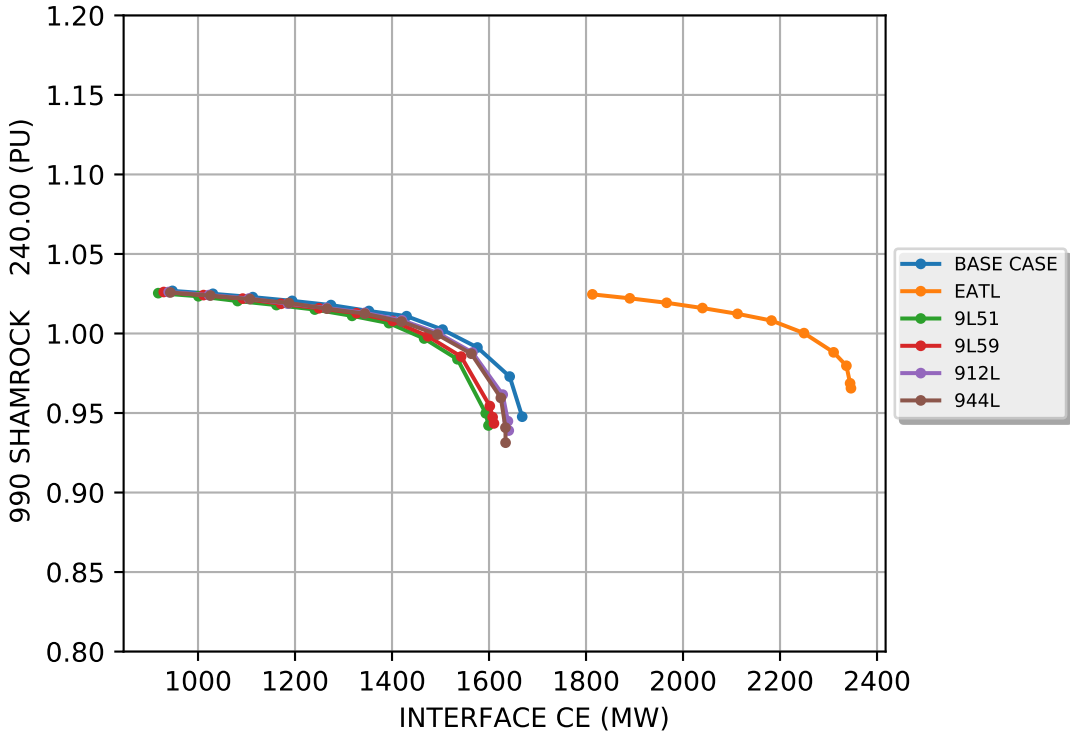


Figure: E-2-28

Case: H7, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 29.4%

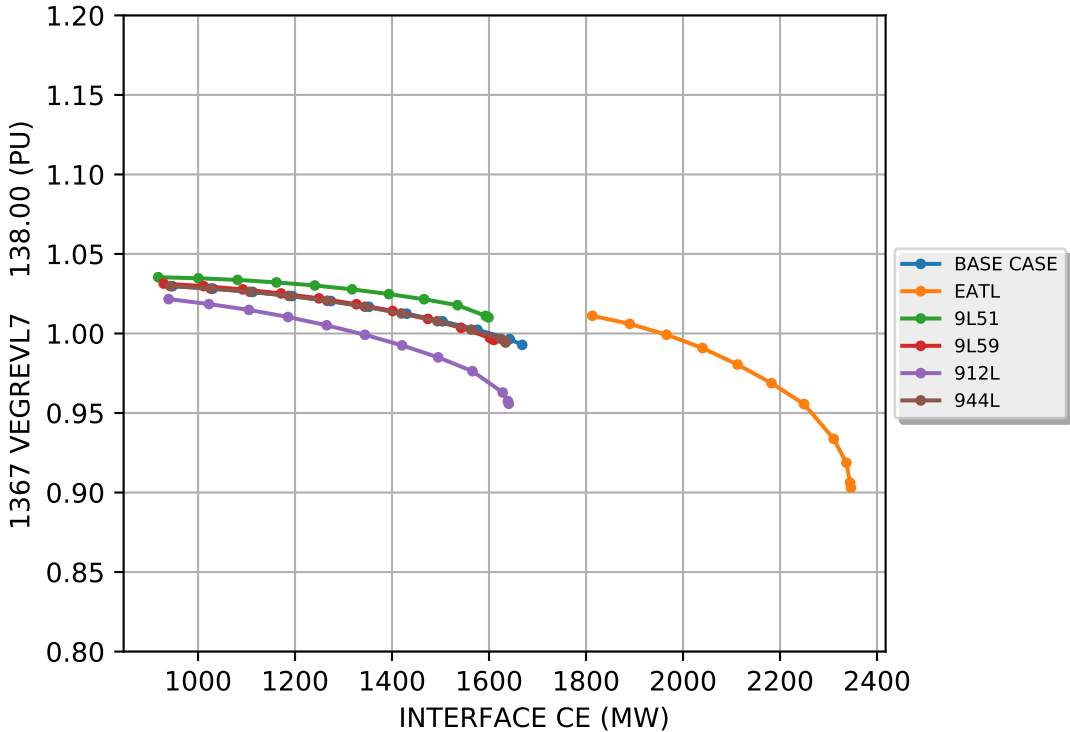


Figure: E-2-29

Case: H7, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 29.4%

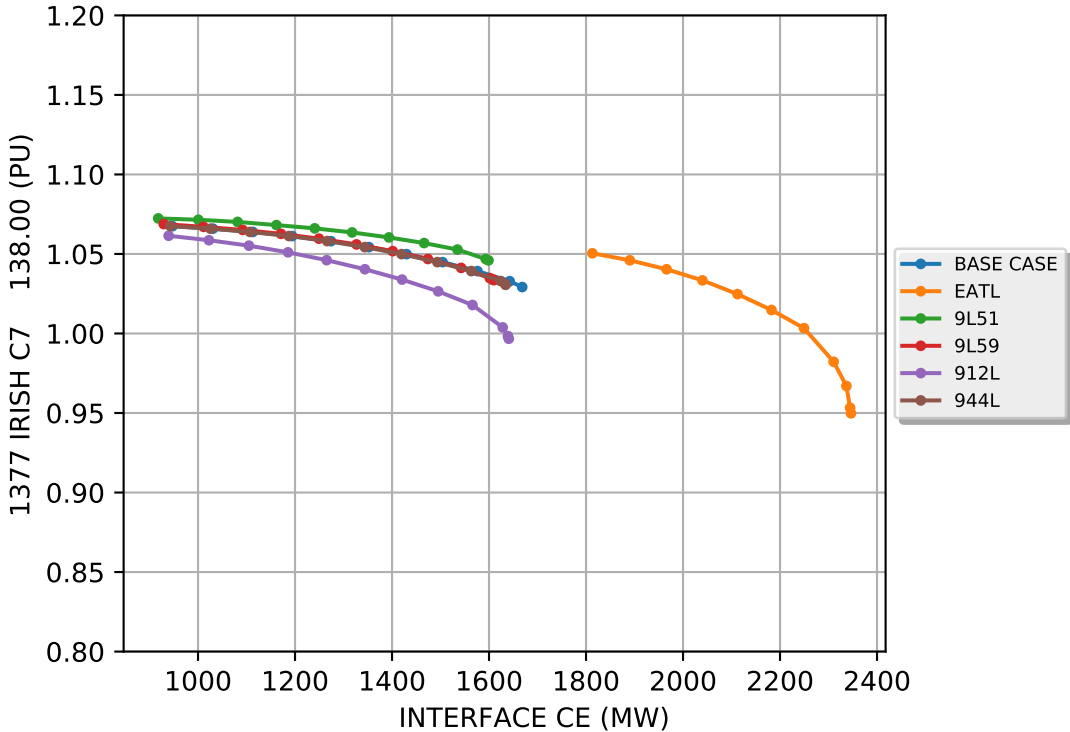


Figure: E-2-30

Case: H7, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 29.4%

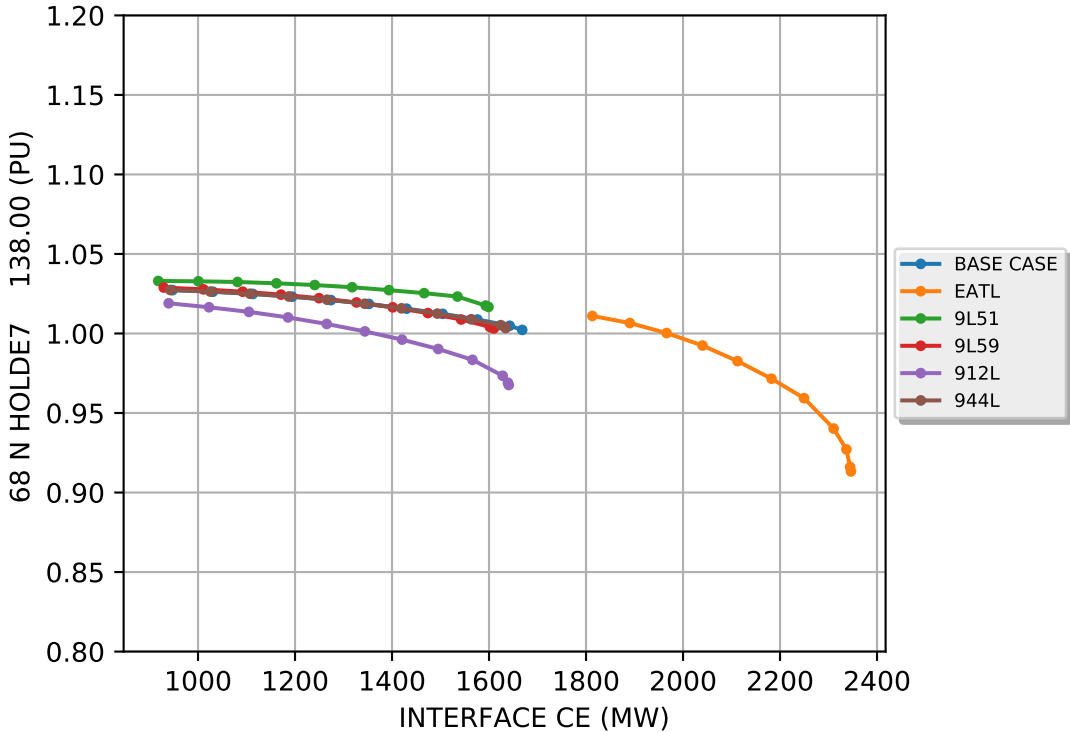


Figure: E-2-31

Case: H7, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 29.4%

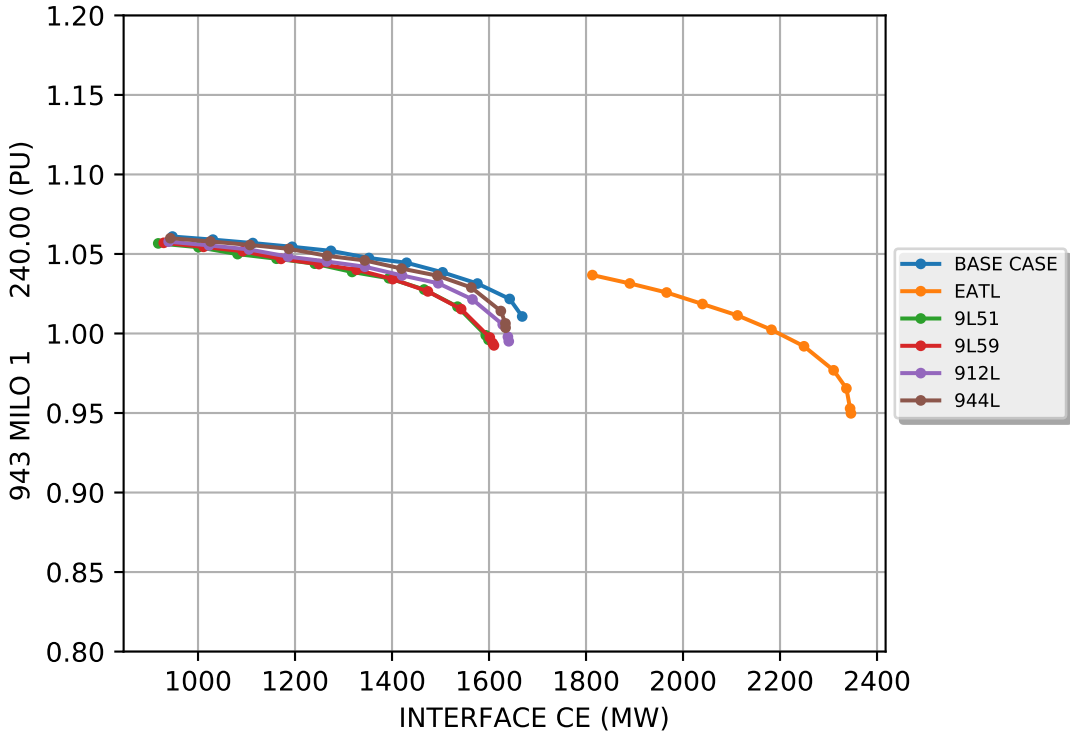


Figure: E-2-32

Case: H7, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 29.4%

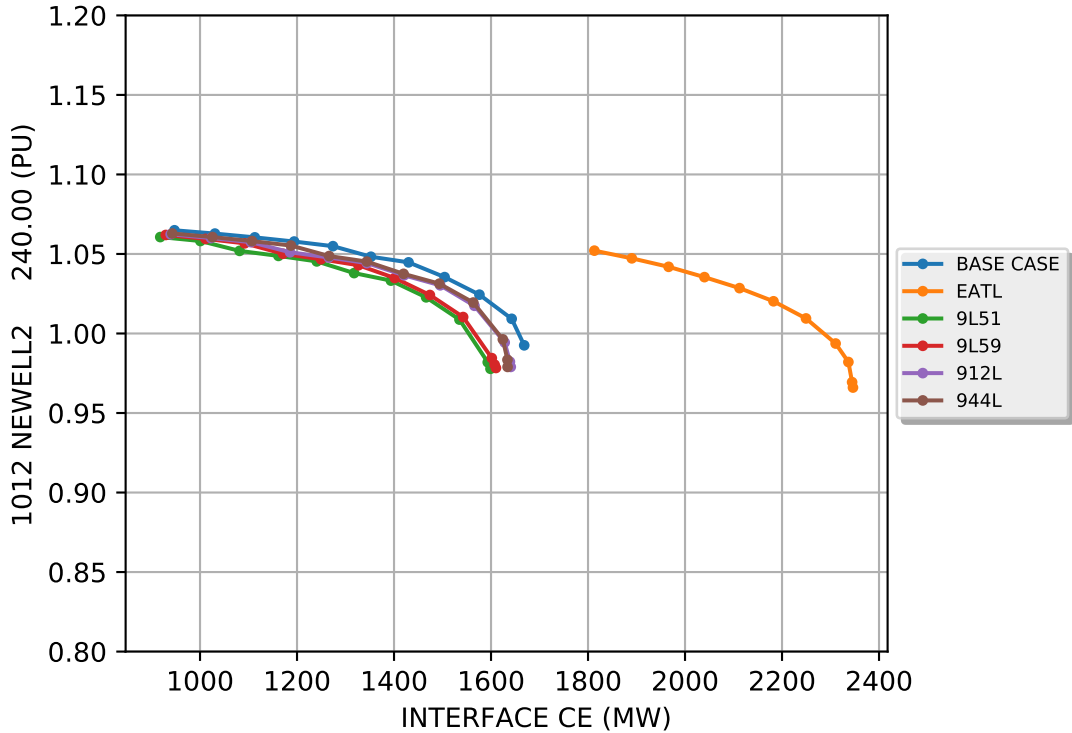


Figure: E-2-33

Case: H4, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 38.6%

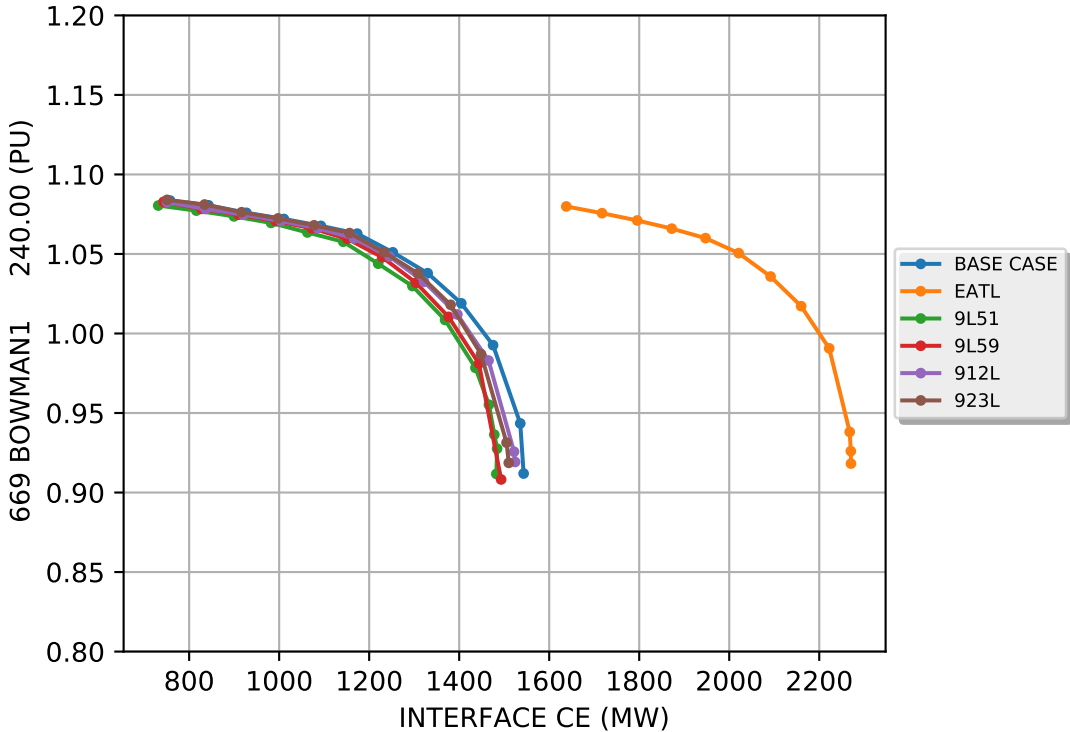


Figure: E-2-34

Case: H4, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 38.6%

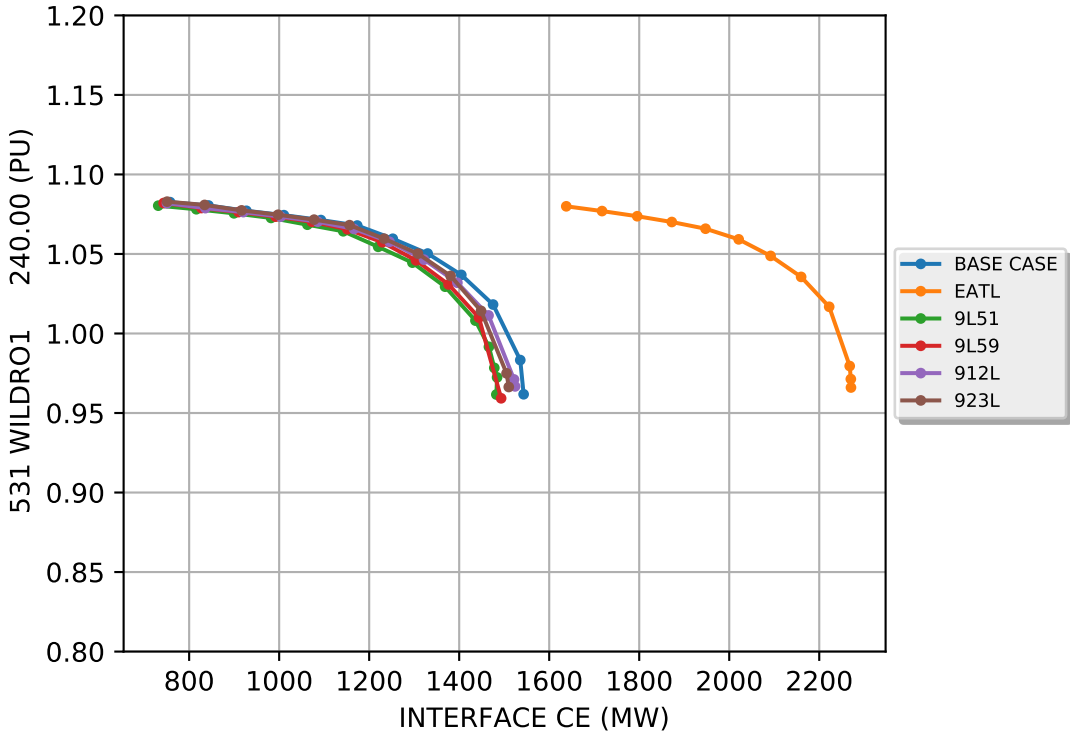


Figure: E-2-35

Case: H4, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 38.6%

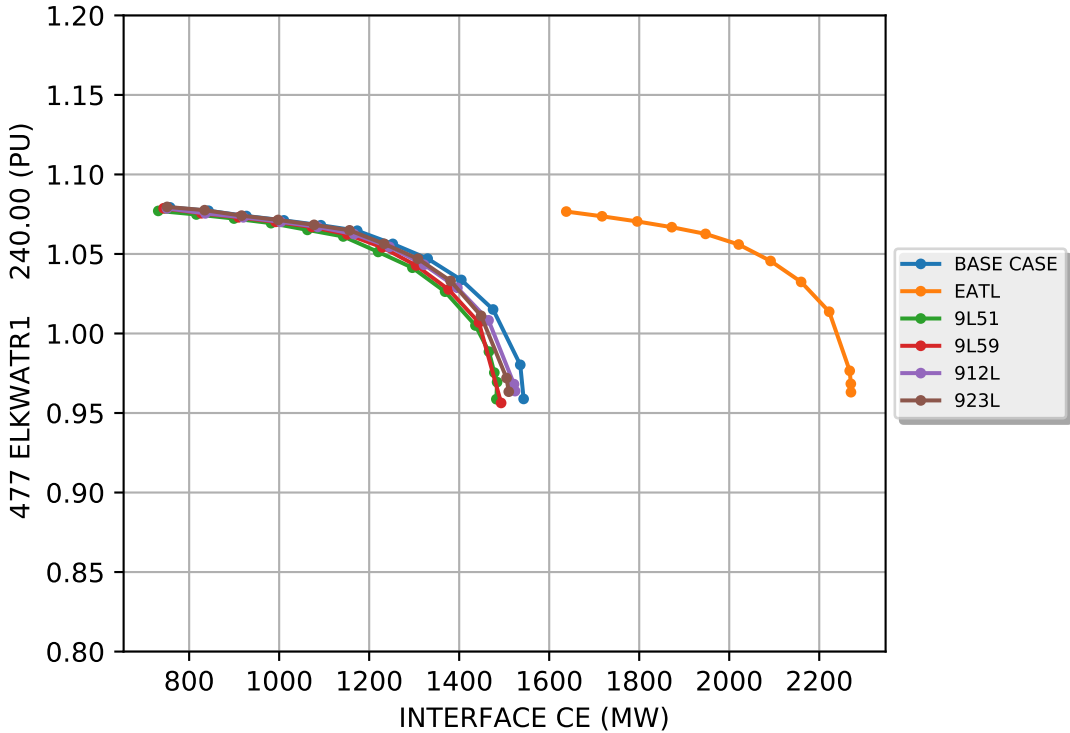


Figure: E-2-36

Case: H4, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 38.6%

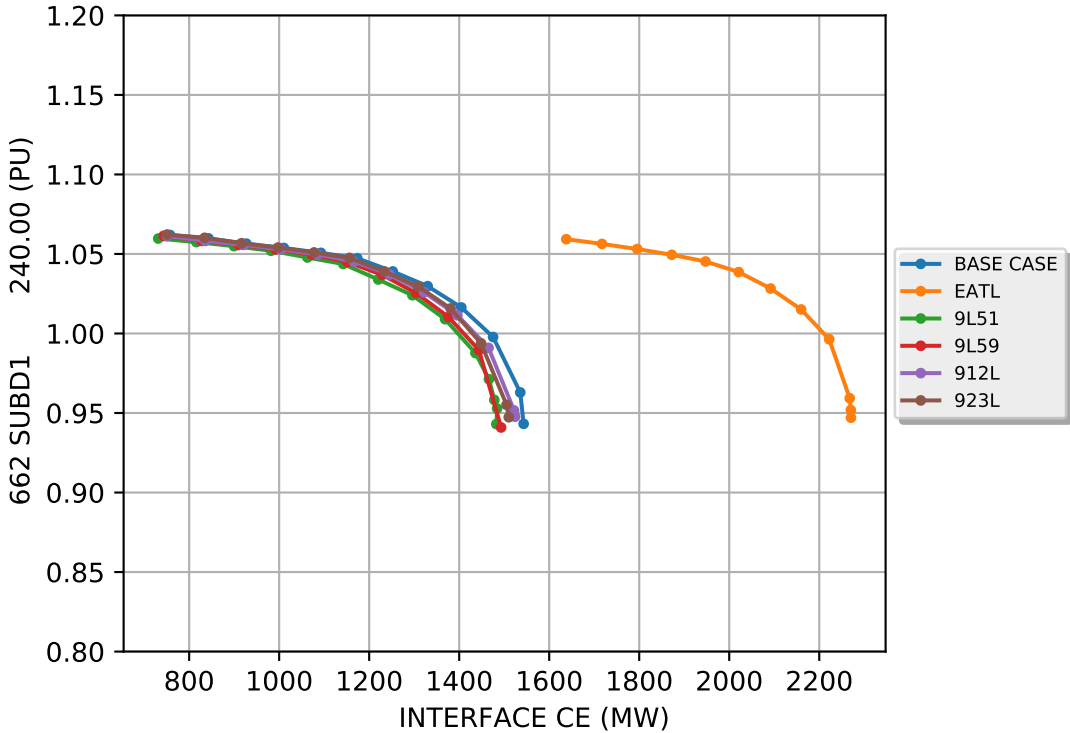


Figure: E-2-37

Case: H4, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 38.6%

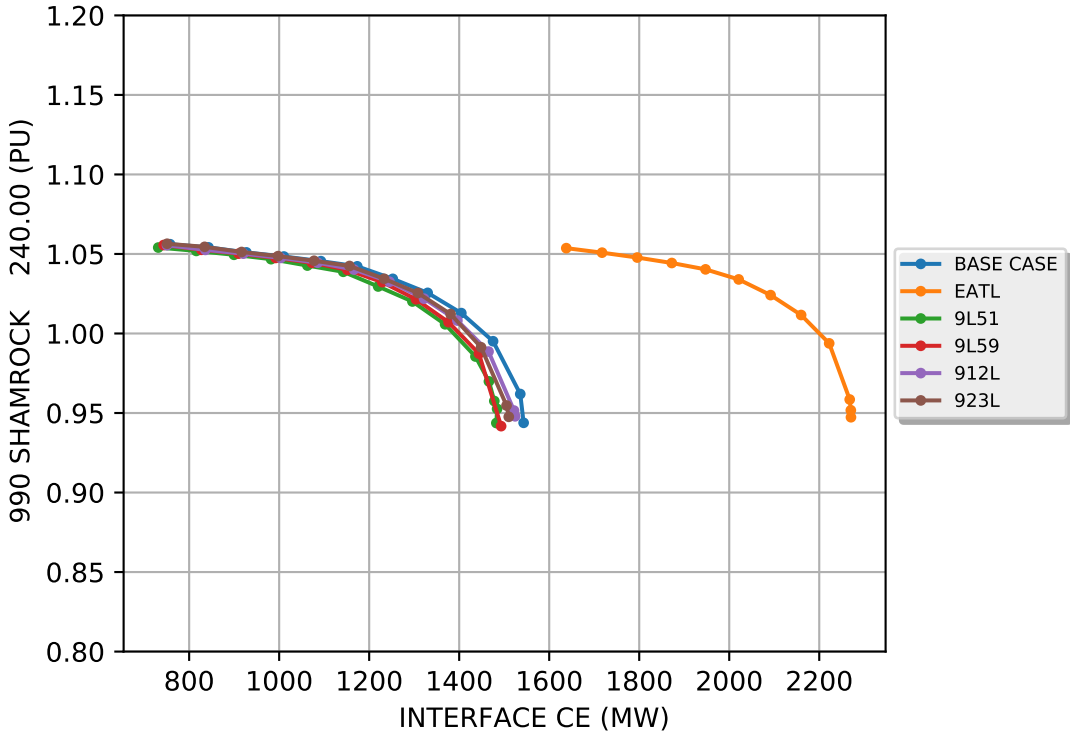


Figure: E-2-38

Case: H4, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 38.6%

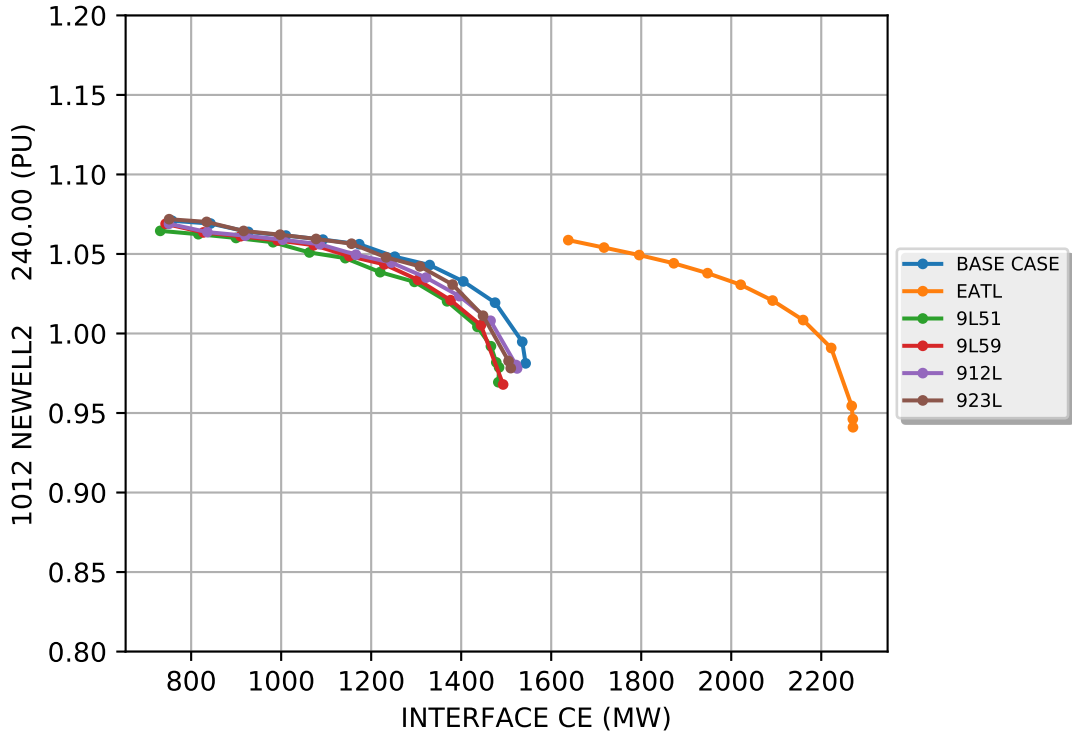


Figure: E-2-39

Case: H4, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 38.6%

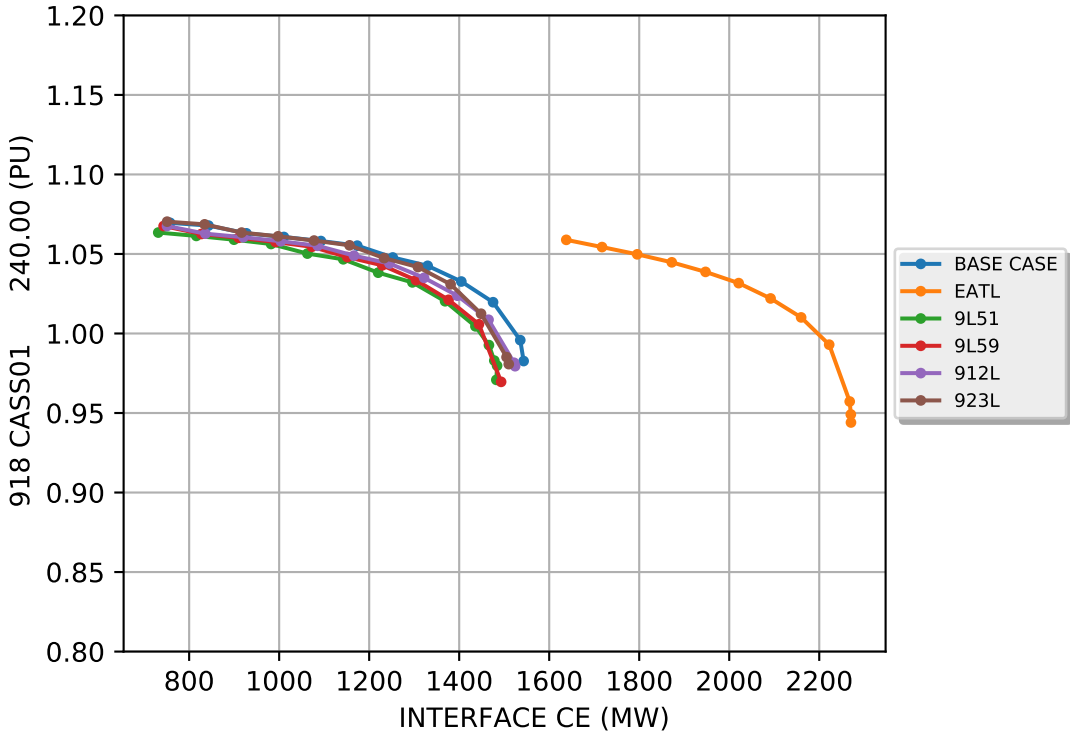


Figure: E-2-40

Case: H4, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 38.6%

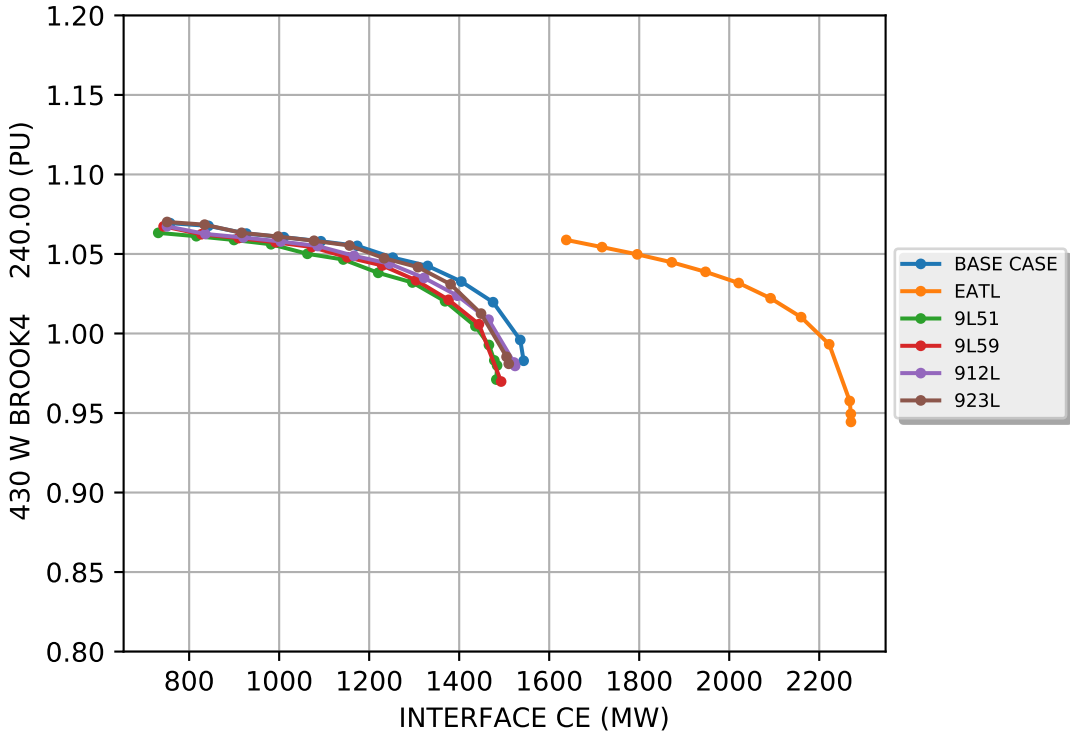


Figure: E-2-41

Case: M12, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 53.6%

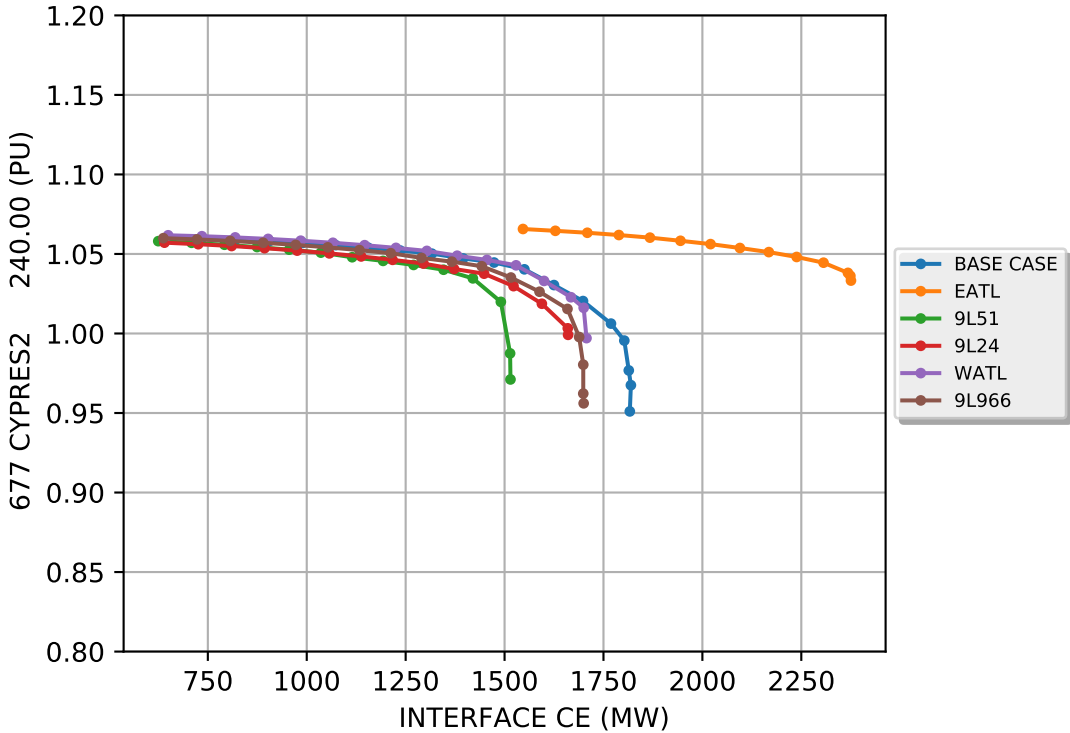


Figure: E-2-42

Case: M12, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 53.6%

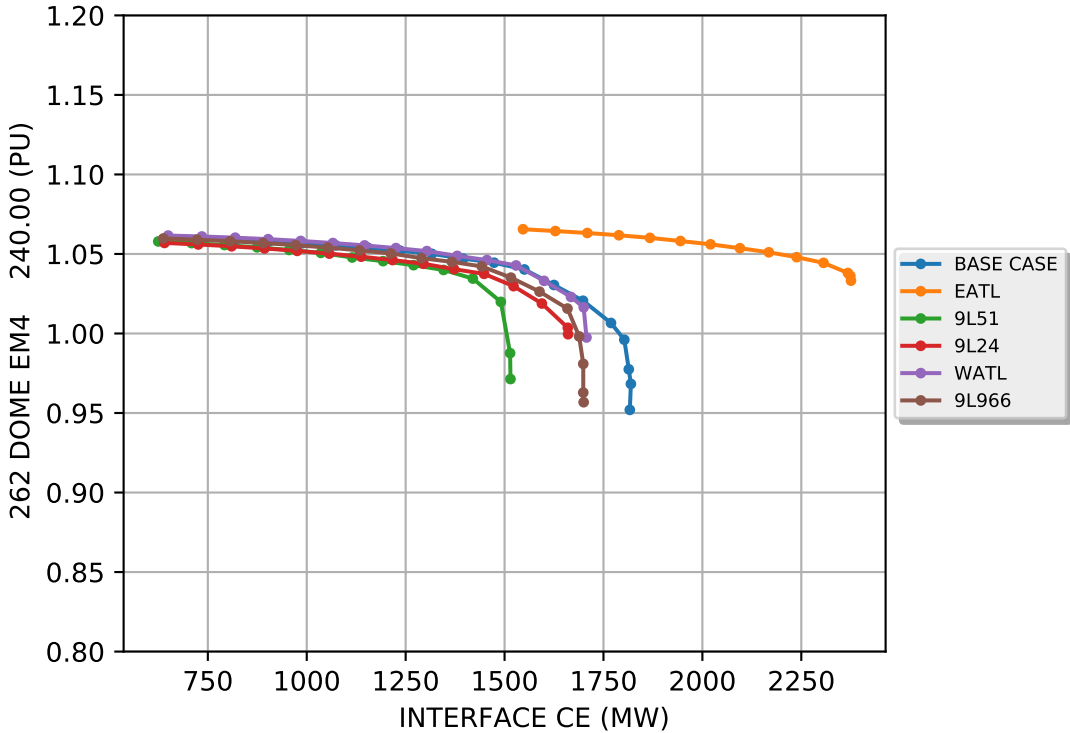


Figure: E-2-43

Case: M12, Option: BOTH

Min Voltage: 0.89 PU, Min Margin: 53.6%

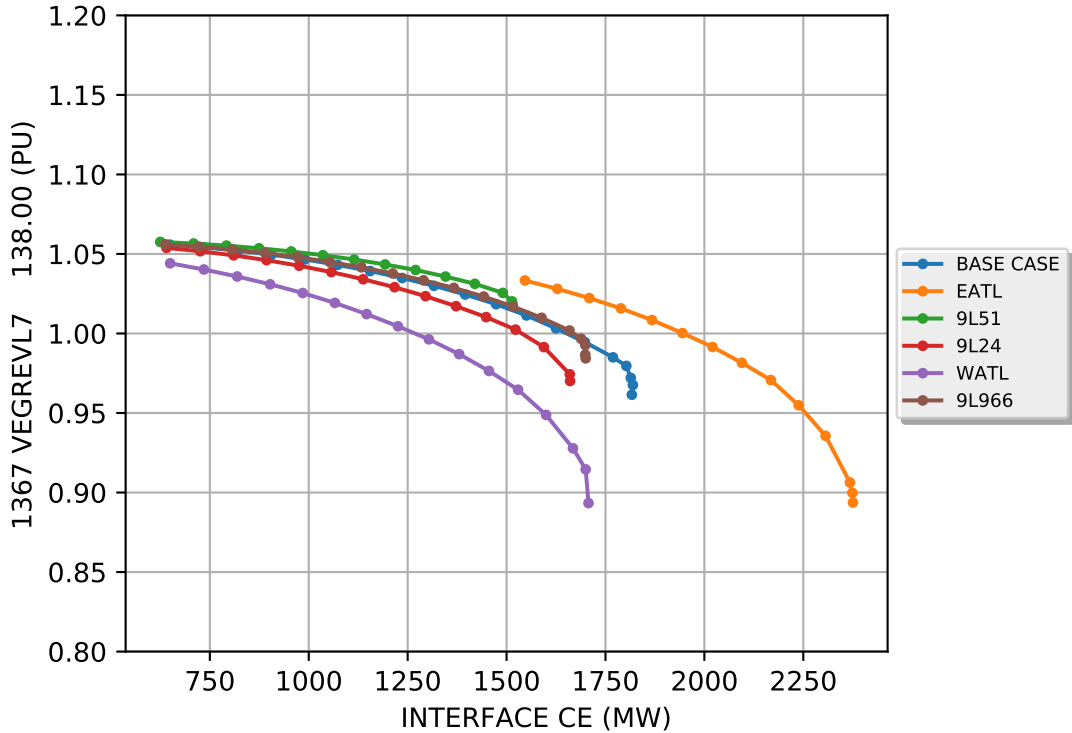


Figure: E-2-44

Case: M12, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 53.6%

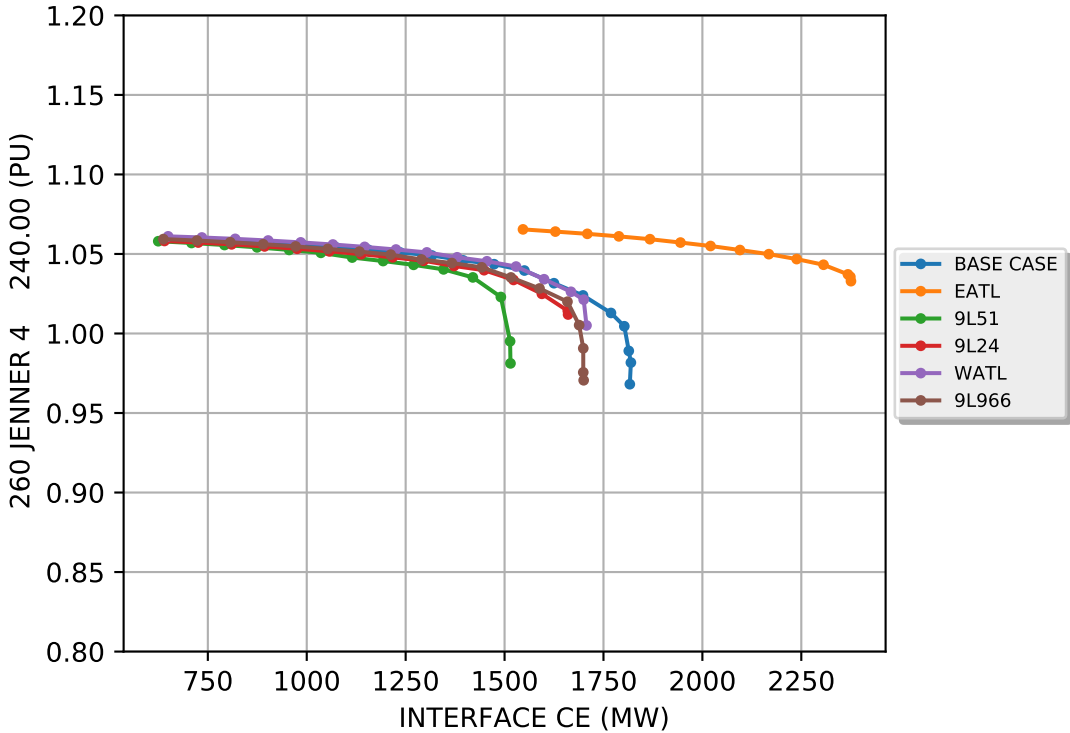


Figure: E-2-45

Case: M12, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 53.6%

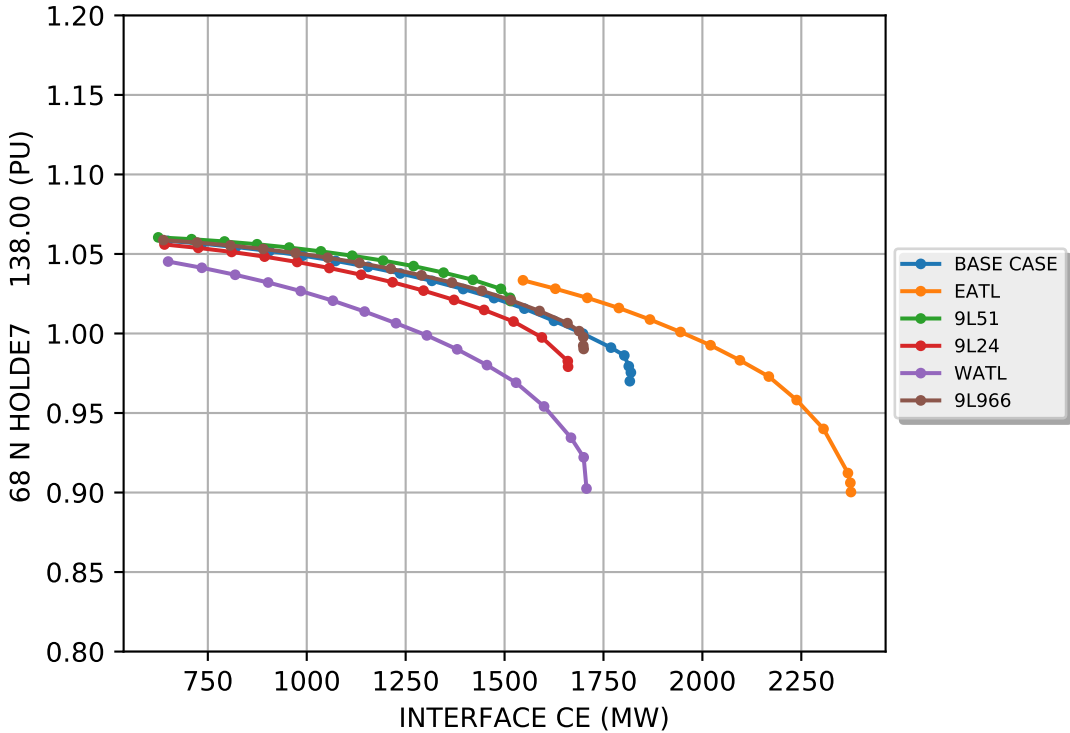


Figure: E-2-46

Case: M12, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 53.6%

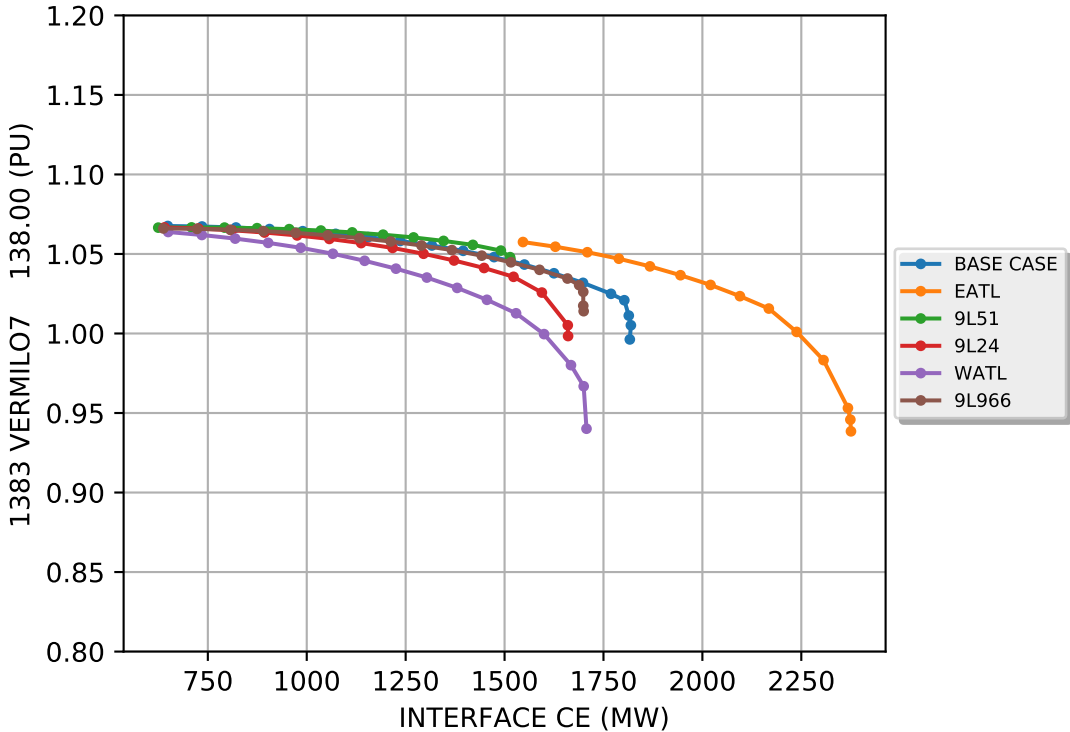


Figure: E-2-47

Case: M12, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 53.6%

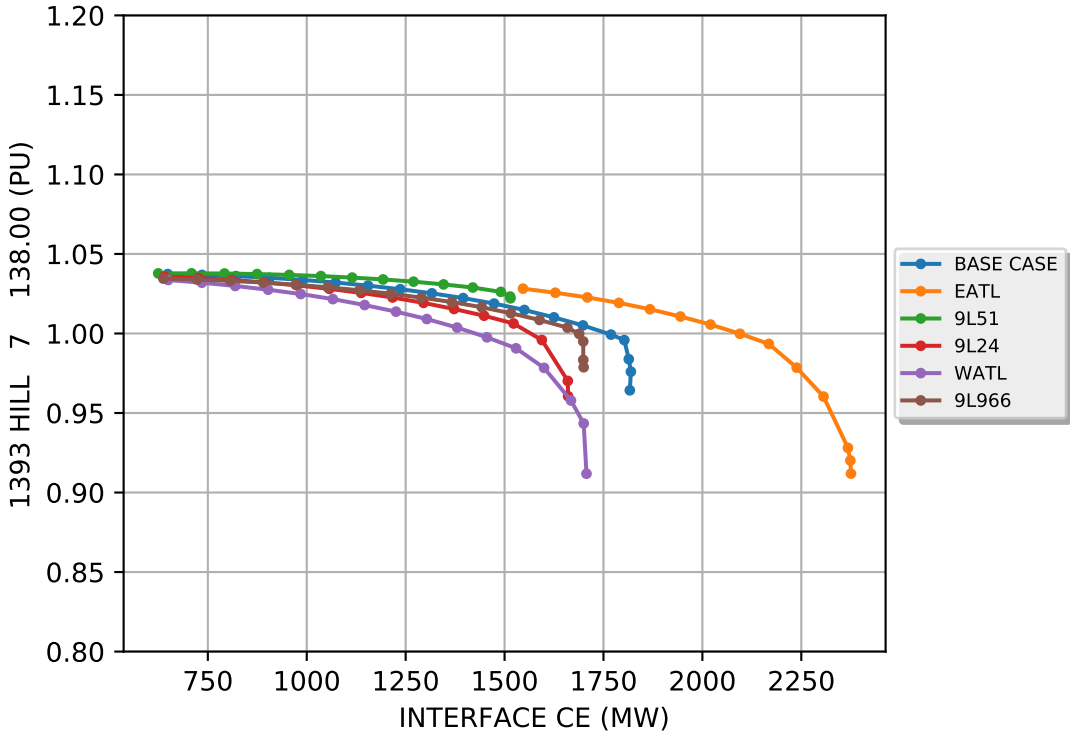


Figure: E-2-48

Case: M12, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 53.6%

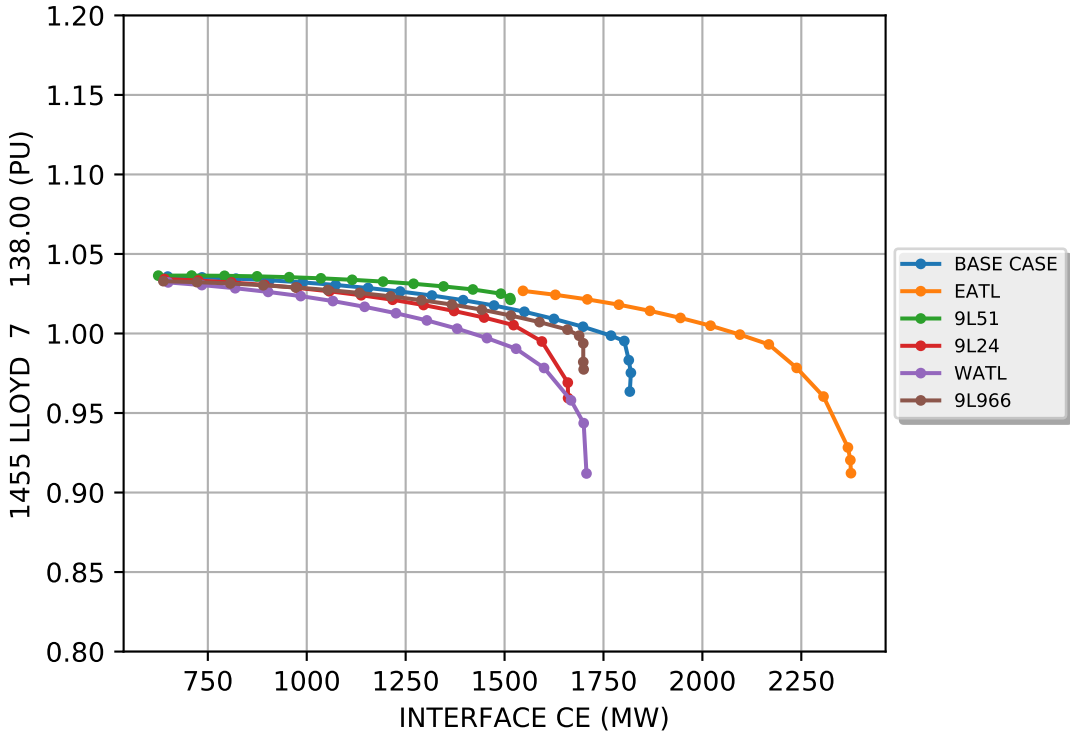


Figure: E-2-49

Case: M12, Option: BOTH

Min Voltage: 0.98 PU, Min Margin: 53.6%

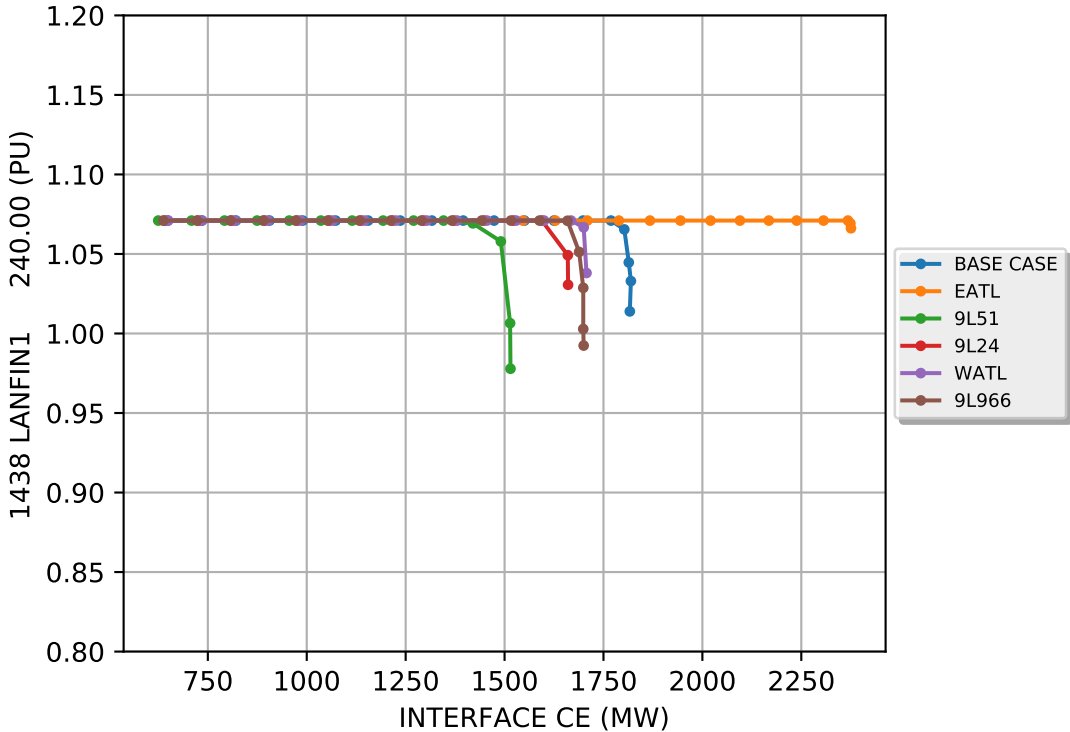


Figure: E-2-50

Case: M12, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 53.6%

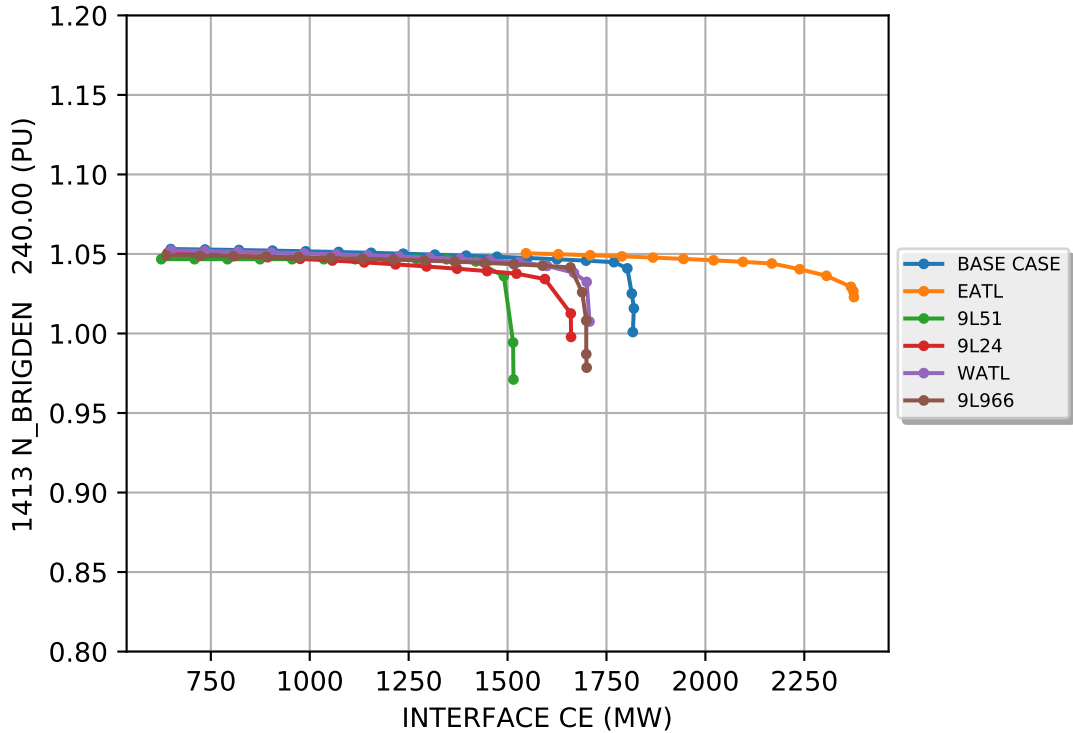


Figure: E-2-51

Case: M12, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 53.6%

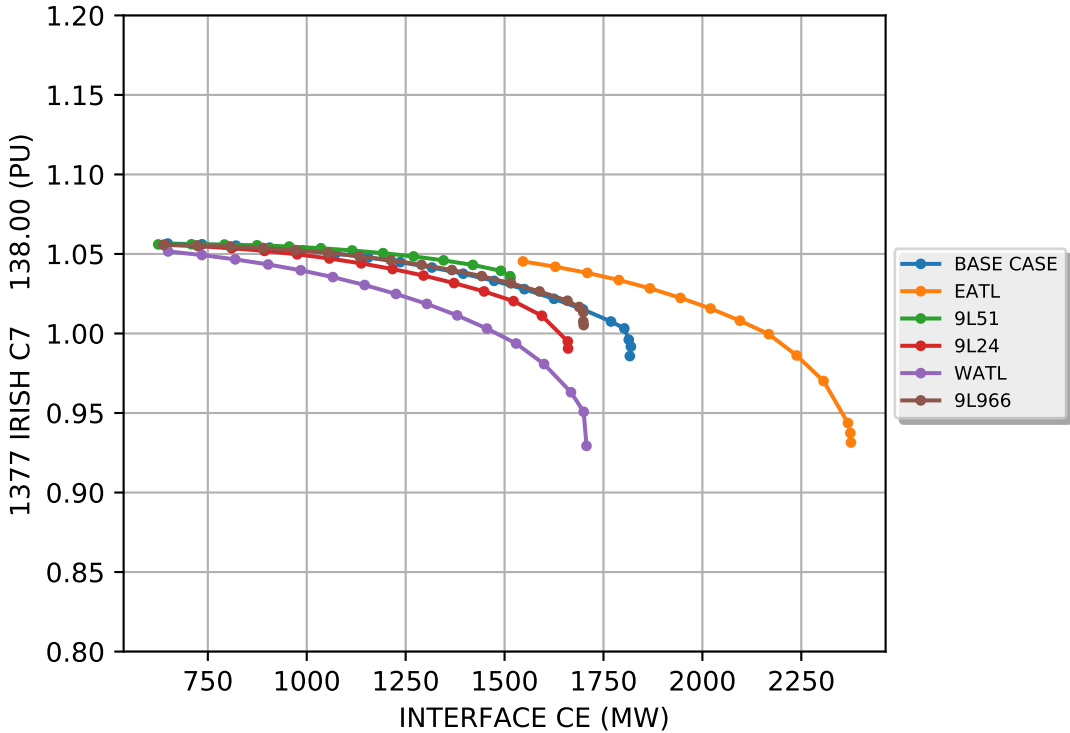


Figure: E-2-52

Case: M12, Option: BOTH

Min Voltage: 0.98 PU, Min Margin: 53.6%

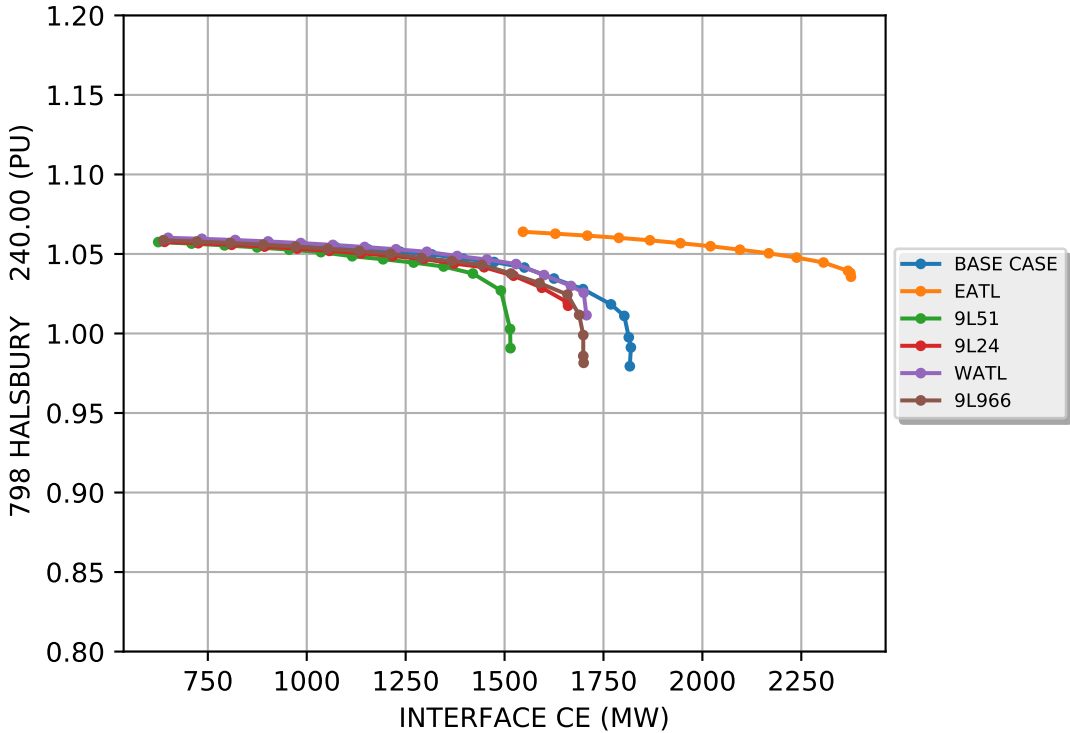


Figure: E-2-53

Case: M13, Option: BOTH

Min Voltage: 0.85 PU, Min Margin: 35.6%

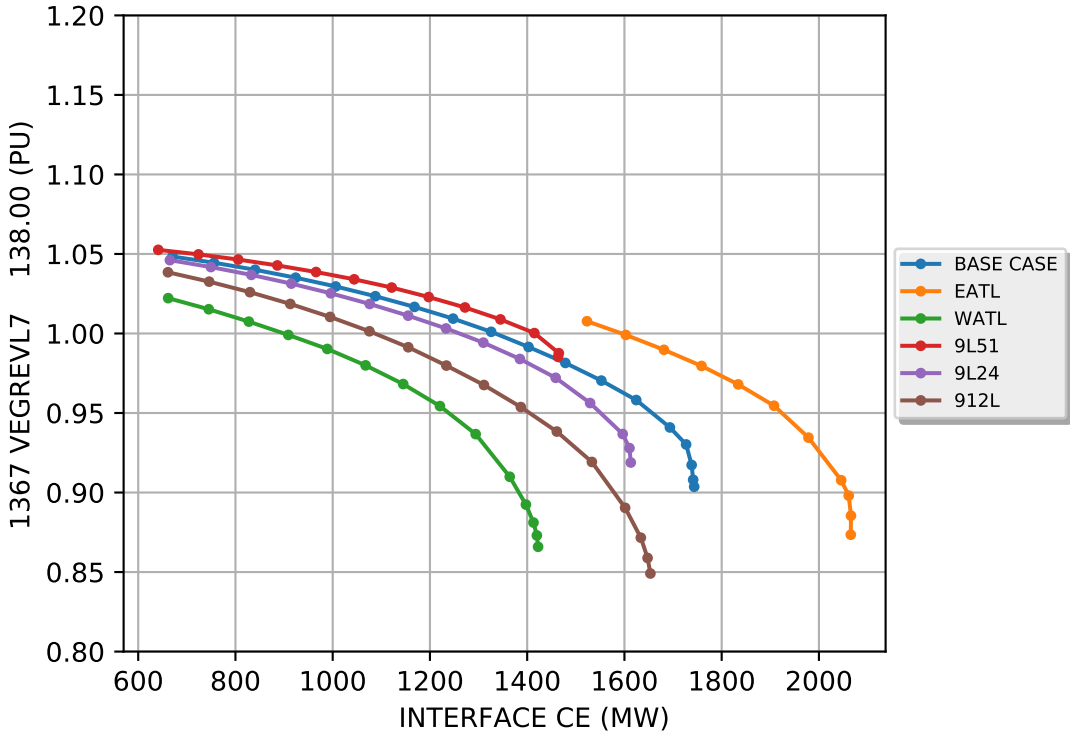


Figure: E-2-54

Case: M13, Option: BOTH

Min Voltage: 0.87 PU, Min Margin: 35.6%

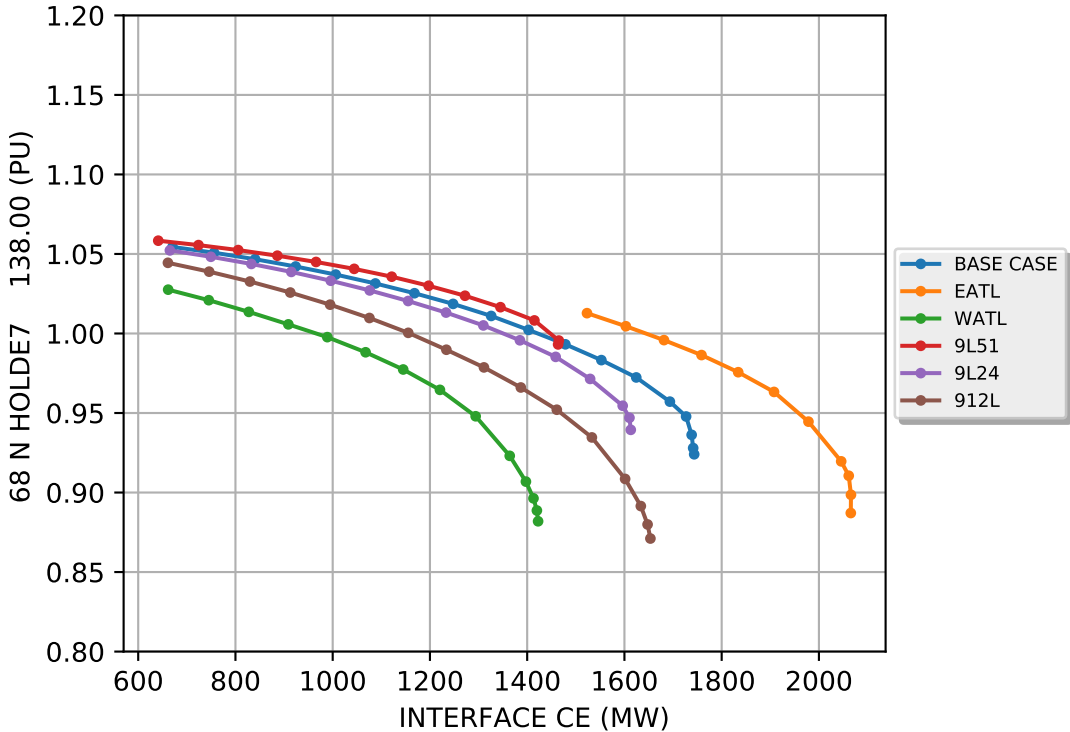


Figure: E-2-55

Case: M13, Option: BOTH

Min Voltage: 0.87 PU, Min Margin: 35.6%

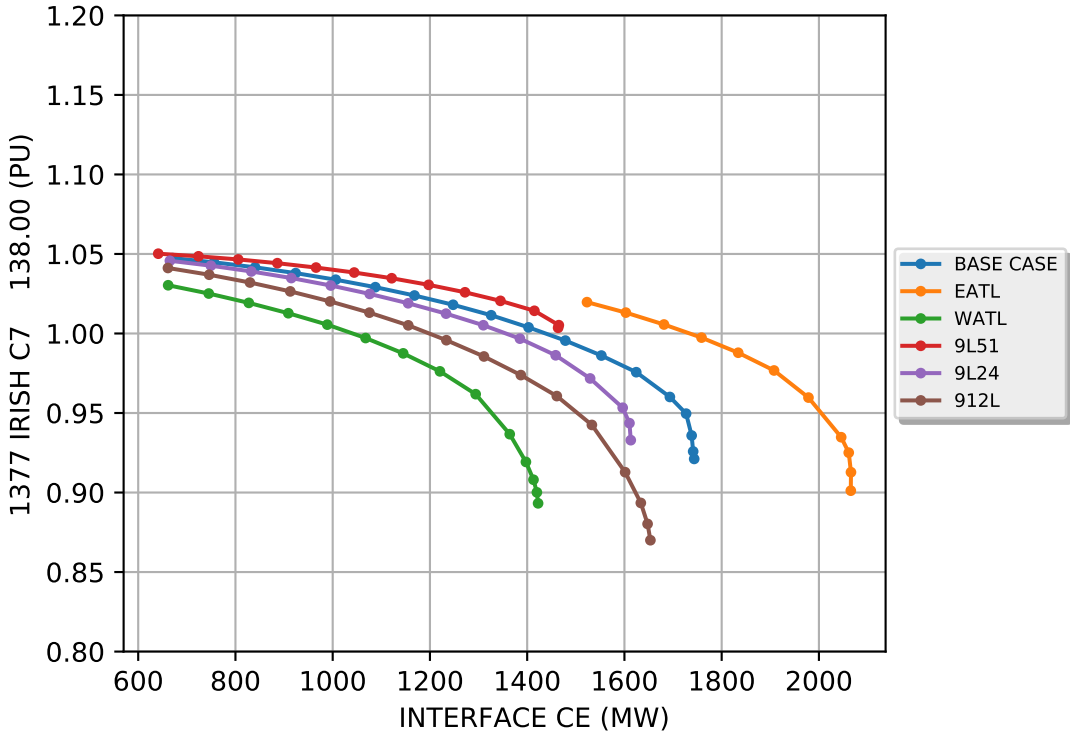


Figure: E-2-56

Case: M13, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 35.6%

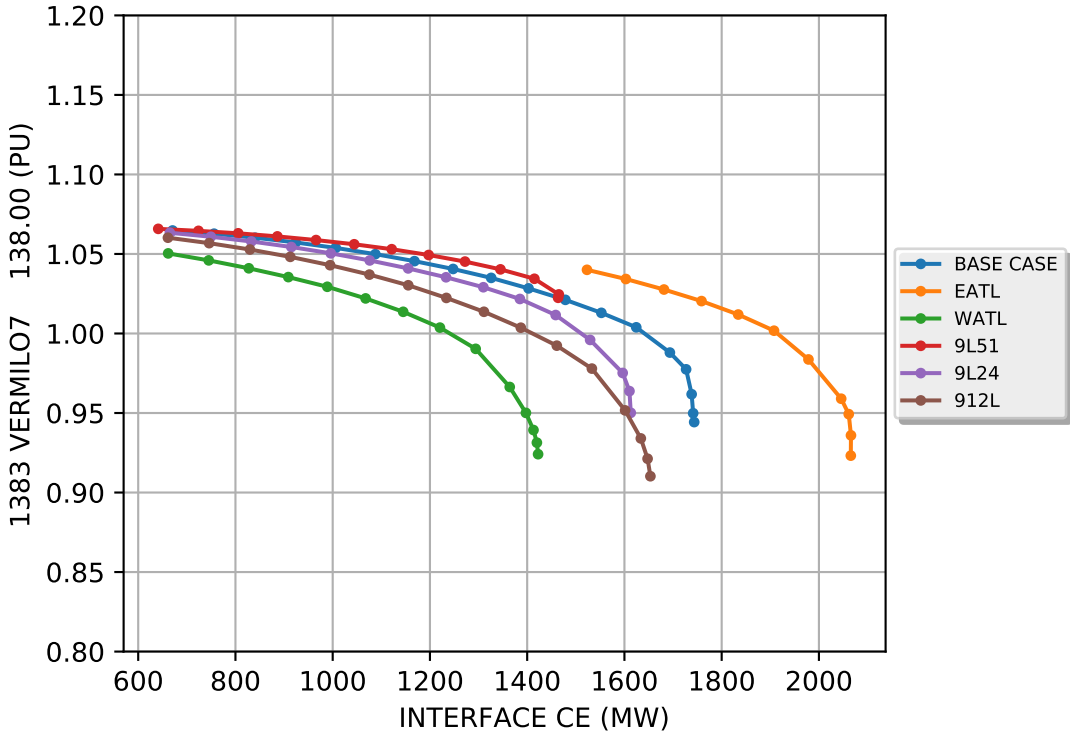


Figure: E-2-57

Case: M13, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 35.6%

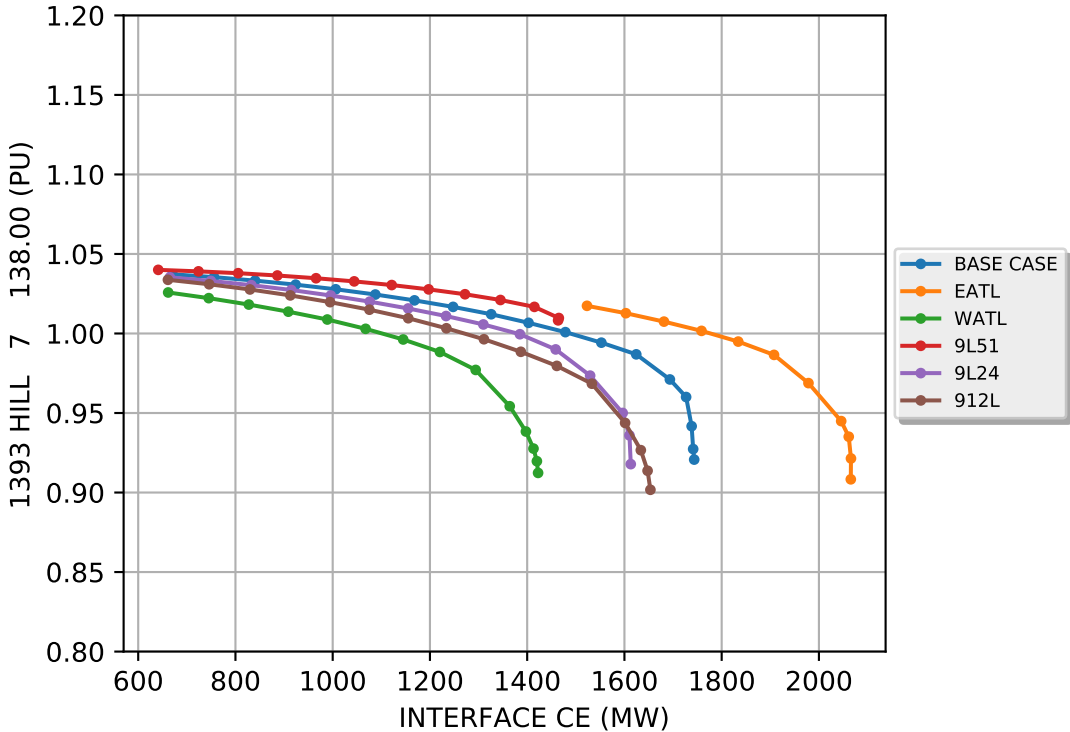


Figure: E-2-58

Case: M13, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 35.6%

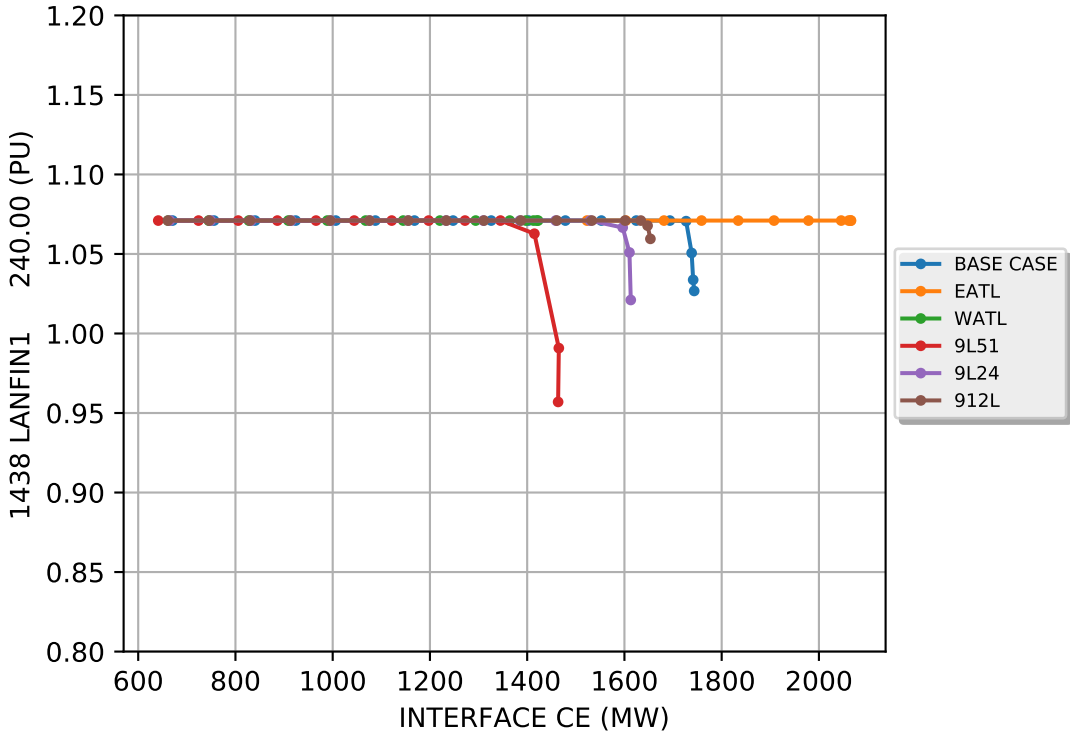


Figure: E-2-59

Case: M13, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 35.6%

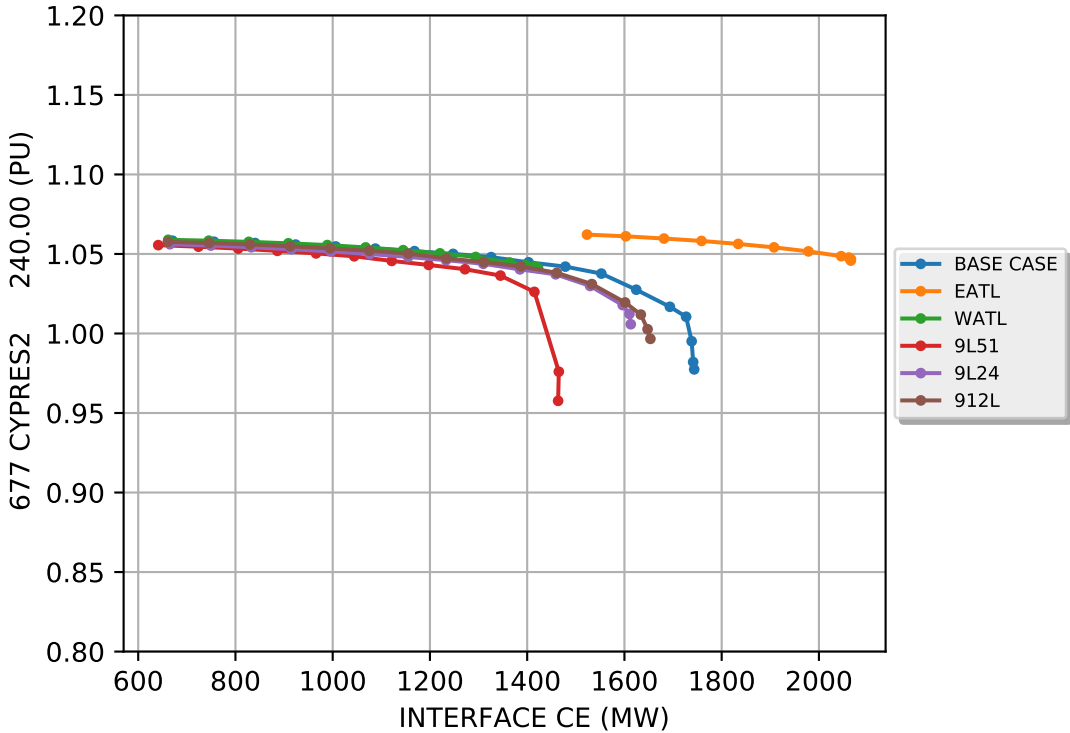


Figure: E-2-61

Case: M13, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 35.6%

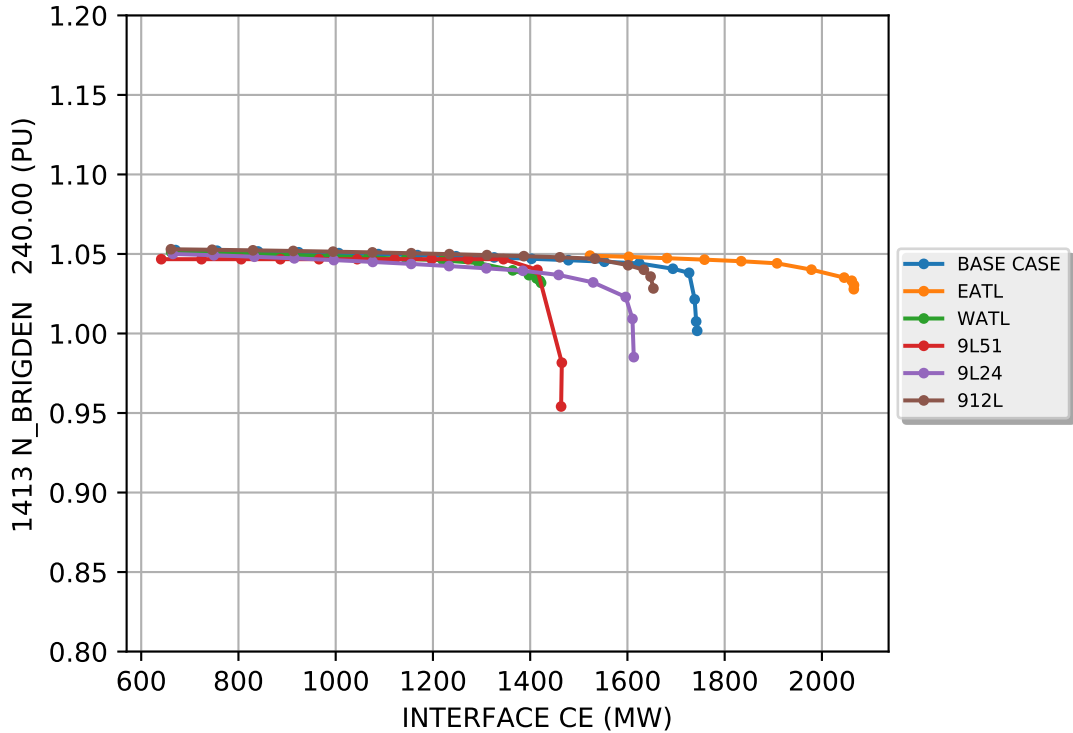


Figure: E-2-62

Case: M13, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 35.6%

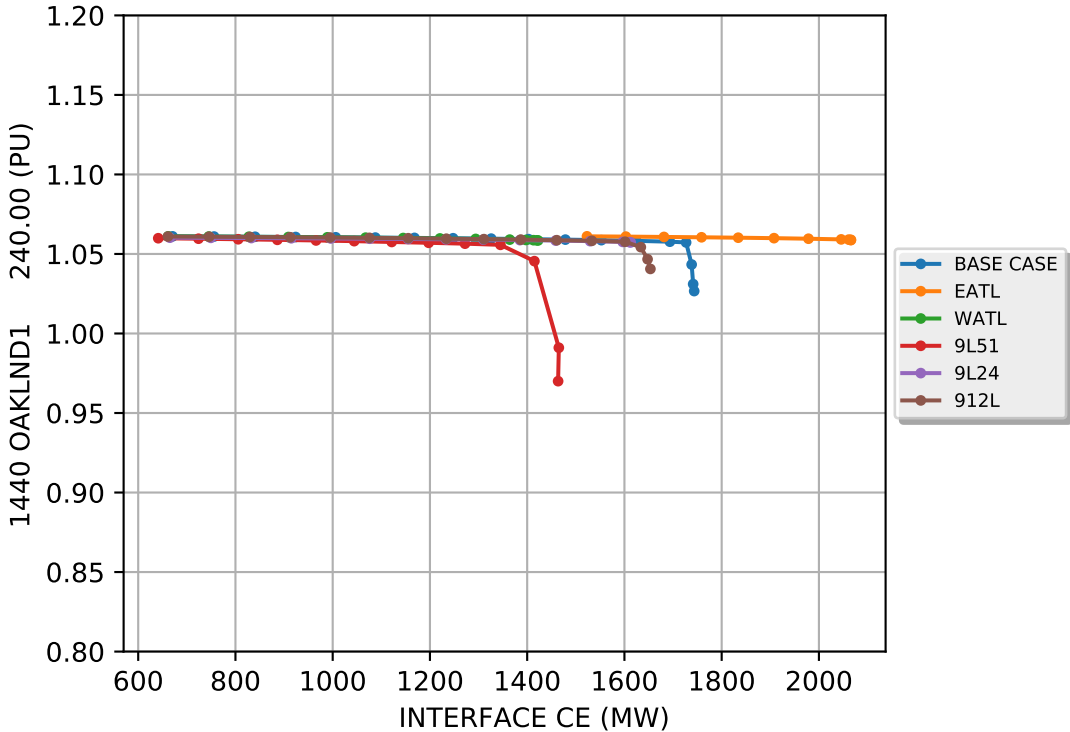


Figure: E-2-63

Case: M13, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 35.6%

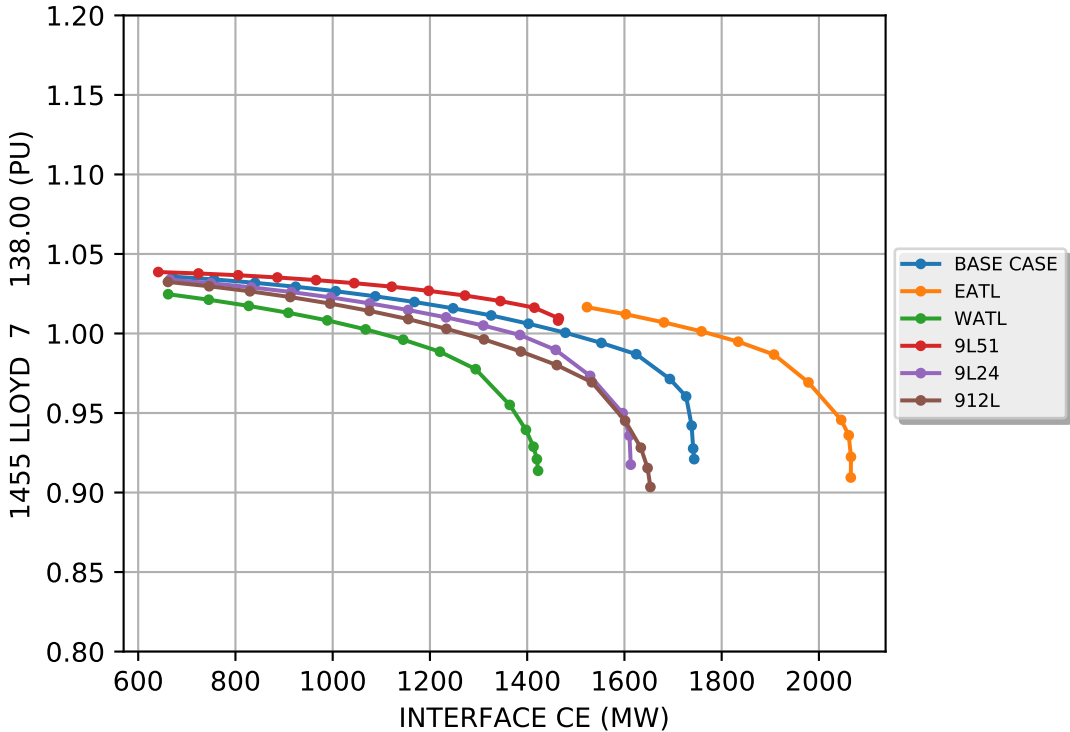


Figure: E-2-64

Case: M14, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 54.3%

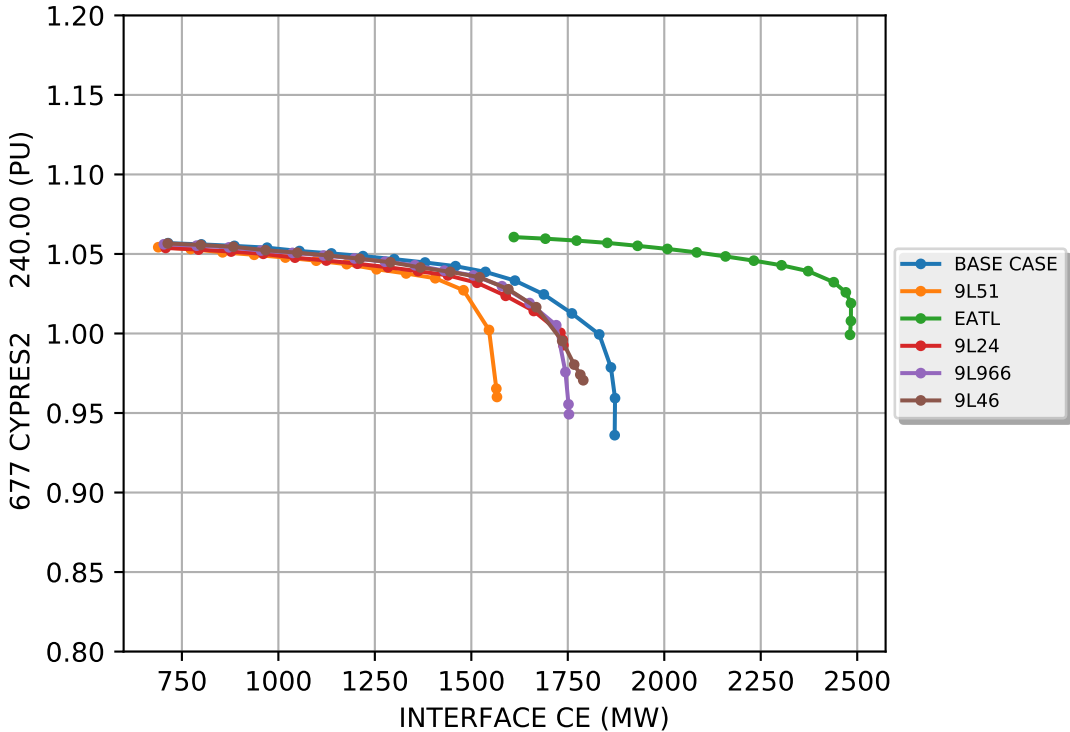


Figure: E-2-65

Case: M14, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 54.3%

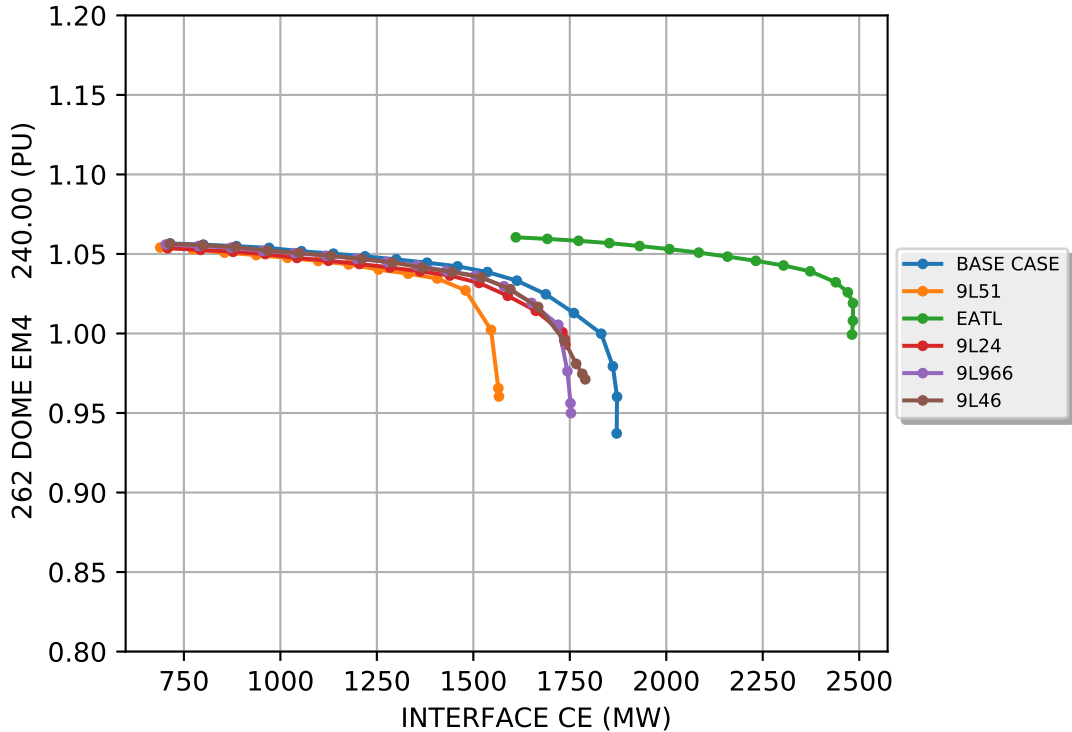


Figure: E-2-66

Case: M14, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 54.3%

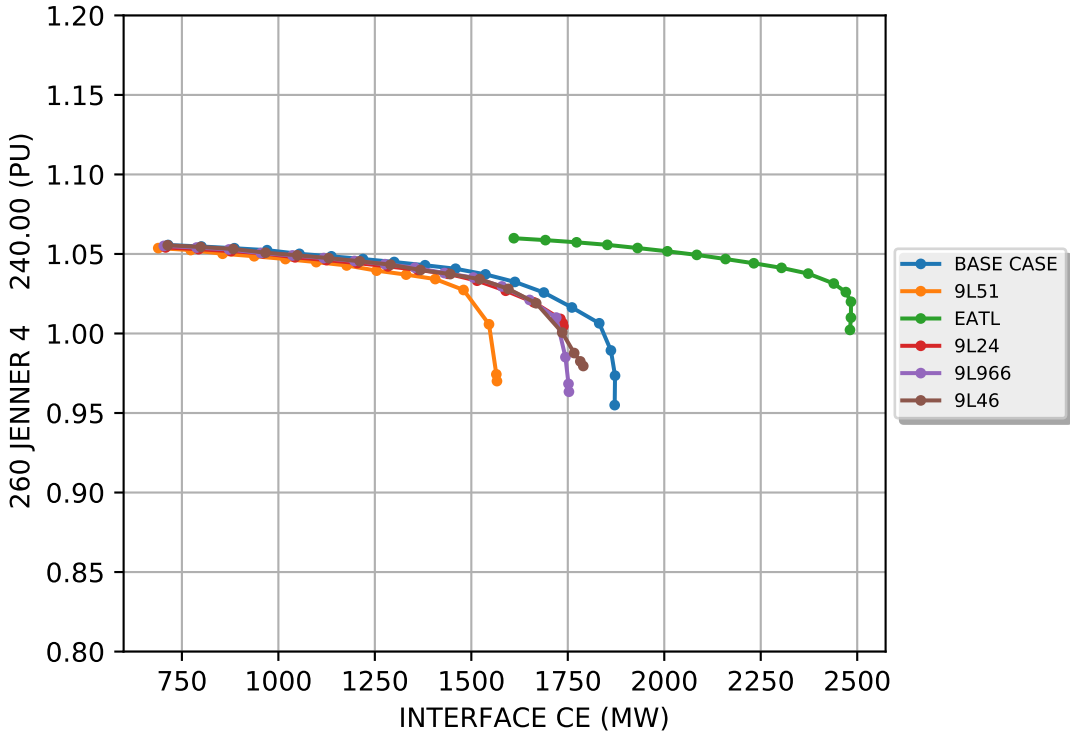


Figure: E-2-67

Case: M14, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 54.3%

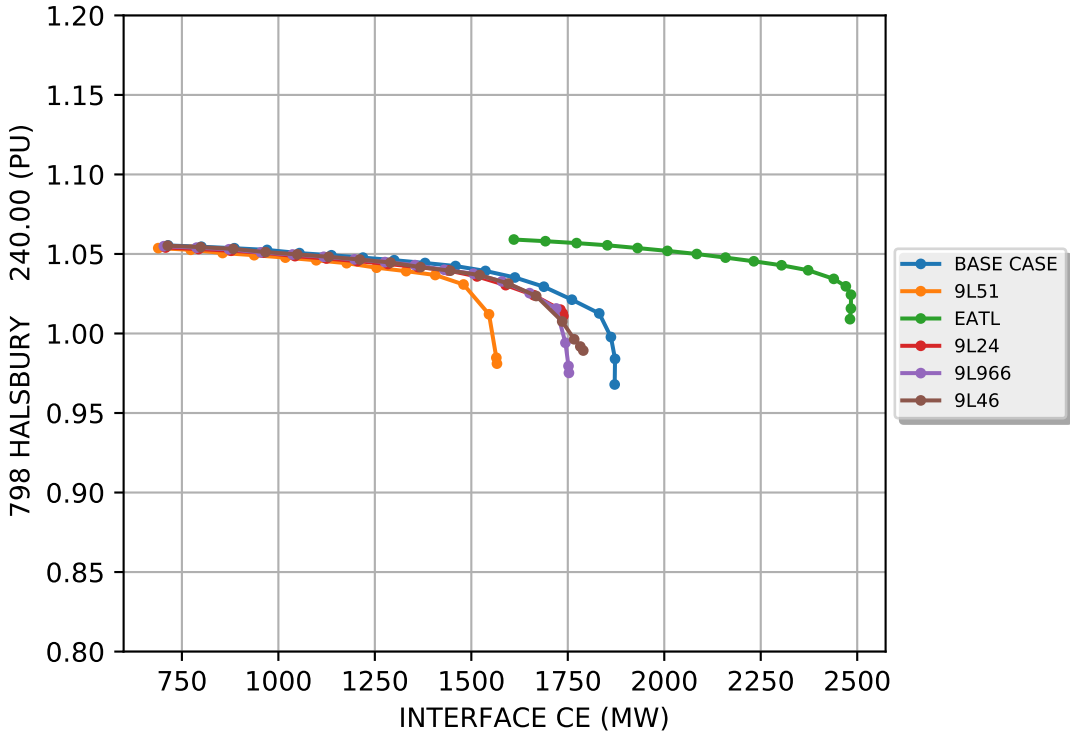


Figure: E-2-68

Case: M14, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 54.3%

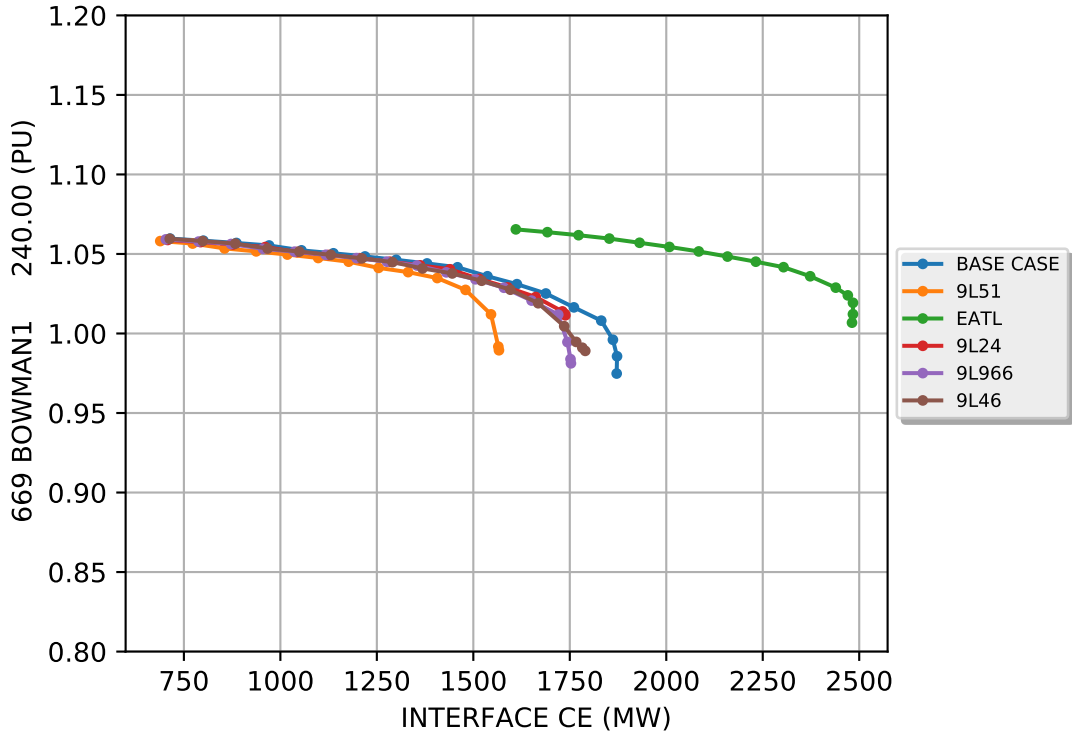


Figure: E-2-69

Case: M14, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 54.3%

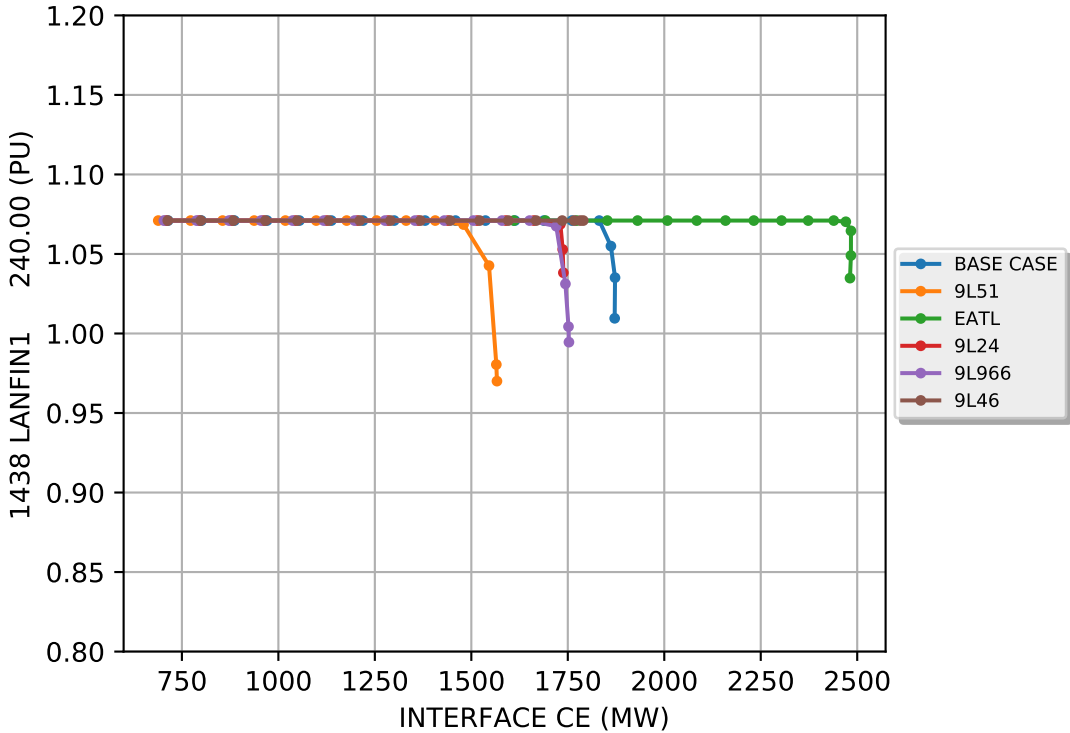


Figure: E-2-70

Case: M14, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 54.3%

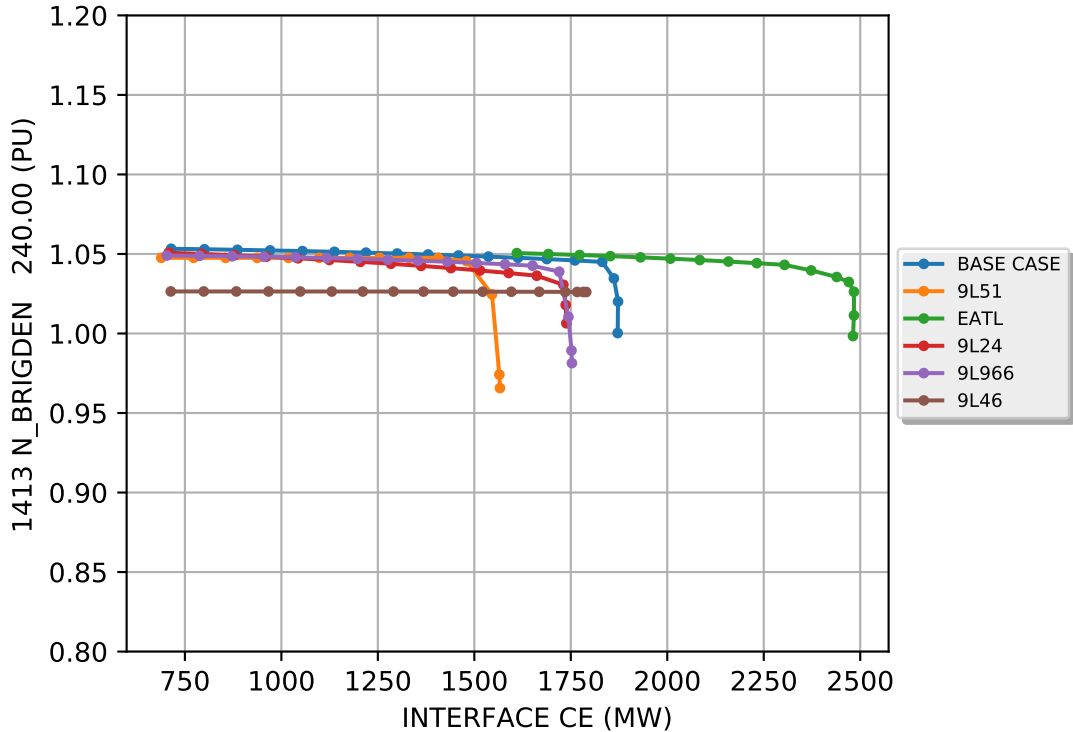


Figure: E-2-71

Case: M14, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 54.3%

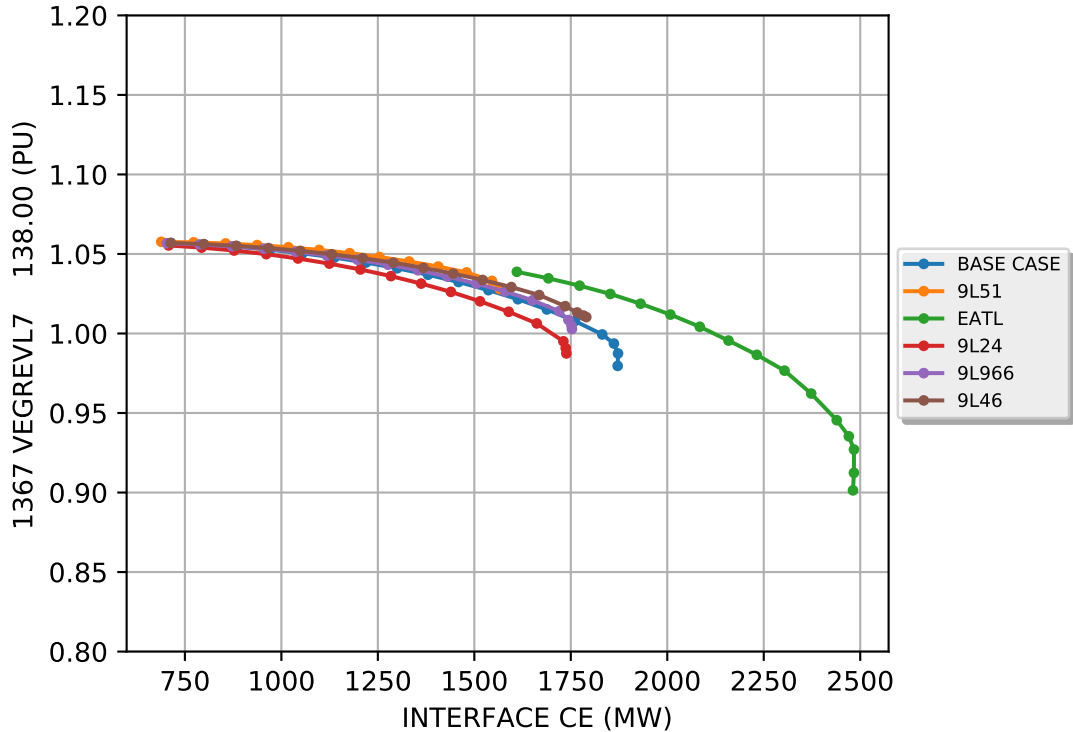


Figure: E-2-72

Case: M14, Option: BOTH

Min Voltage: 0.89 PU, Min Margin: 54.3%

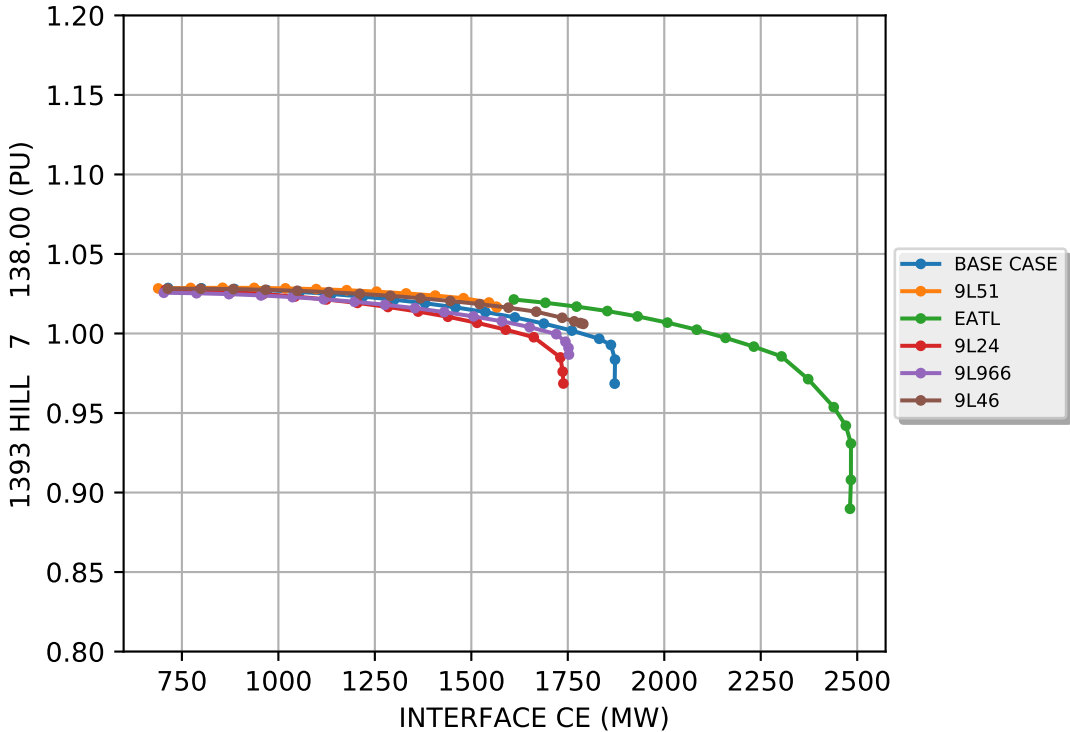


Figure: E-2-73

Case: M14, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 54.3%

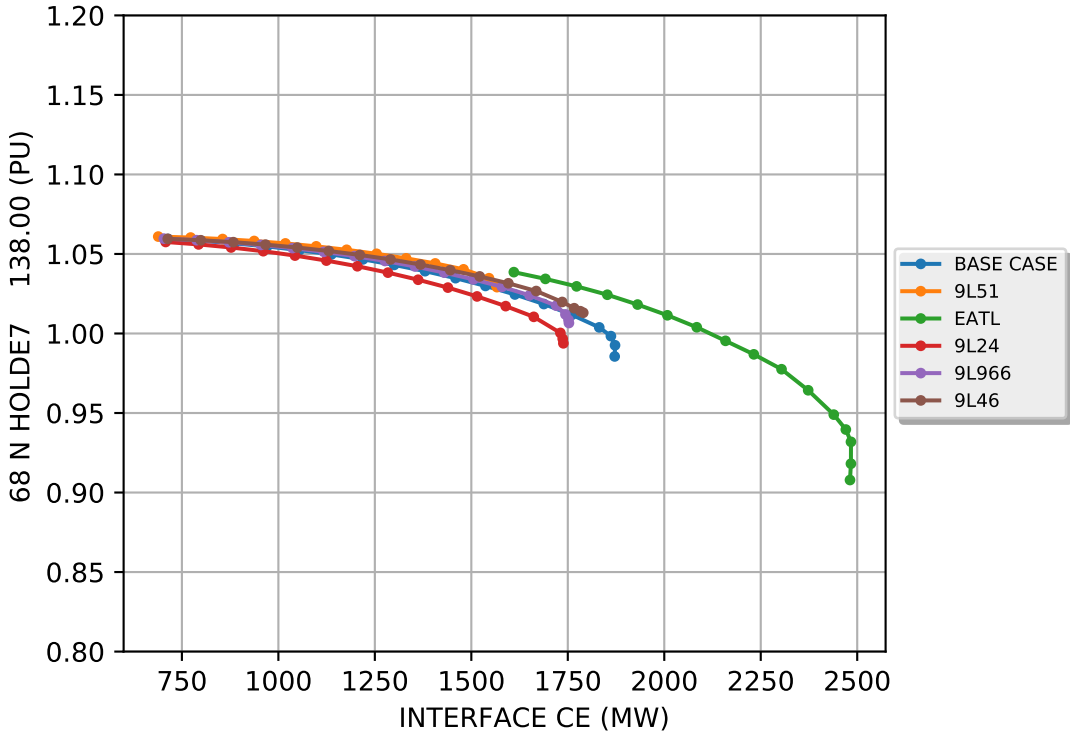


Figure: E-2-74

Case: M14, Option: BOTH

Min Voltage: 0.89 PU, Min Margin: 54.3%

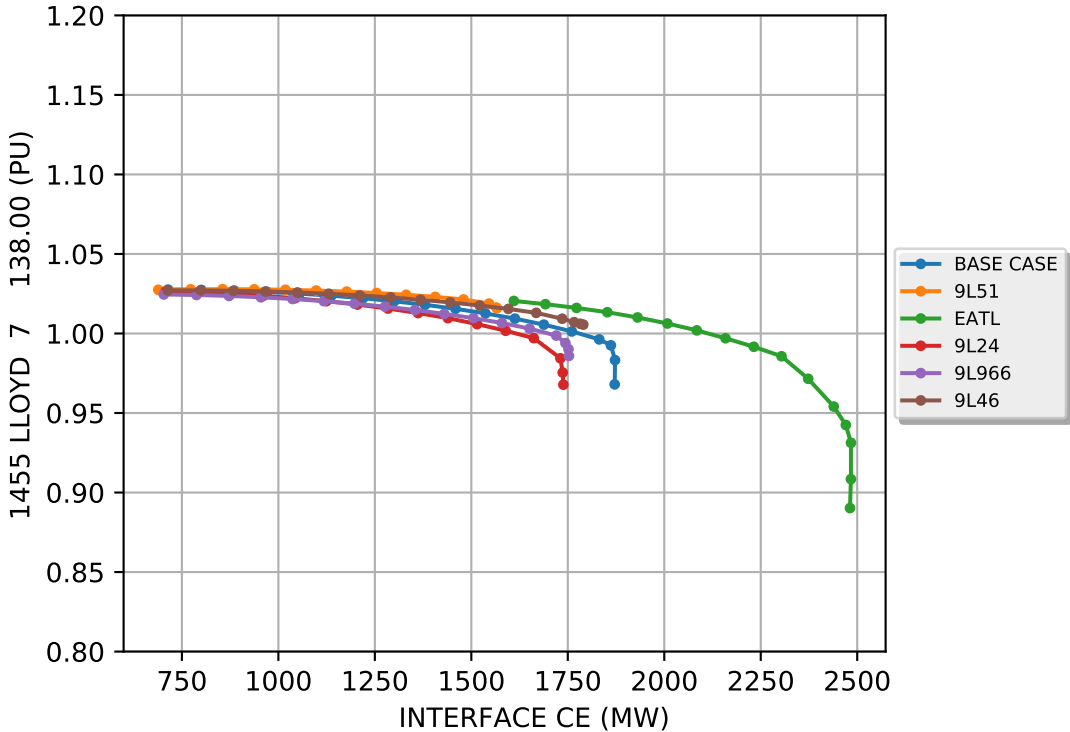


Figure: E-2-75

Case: M14, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 54.3%

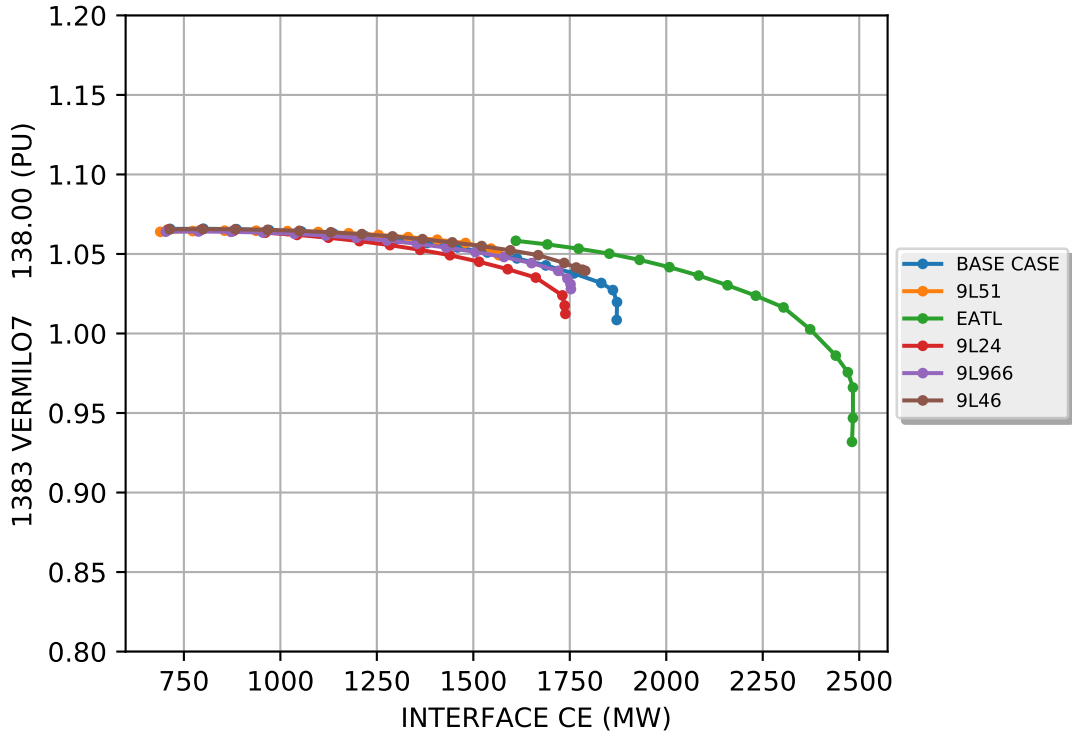


Figure: E-2-76

Case: M14, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 54.3%

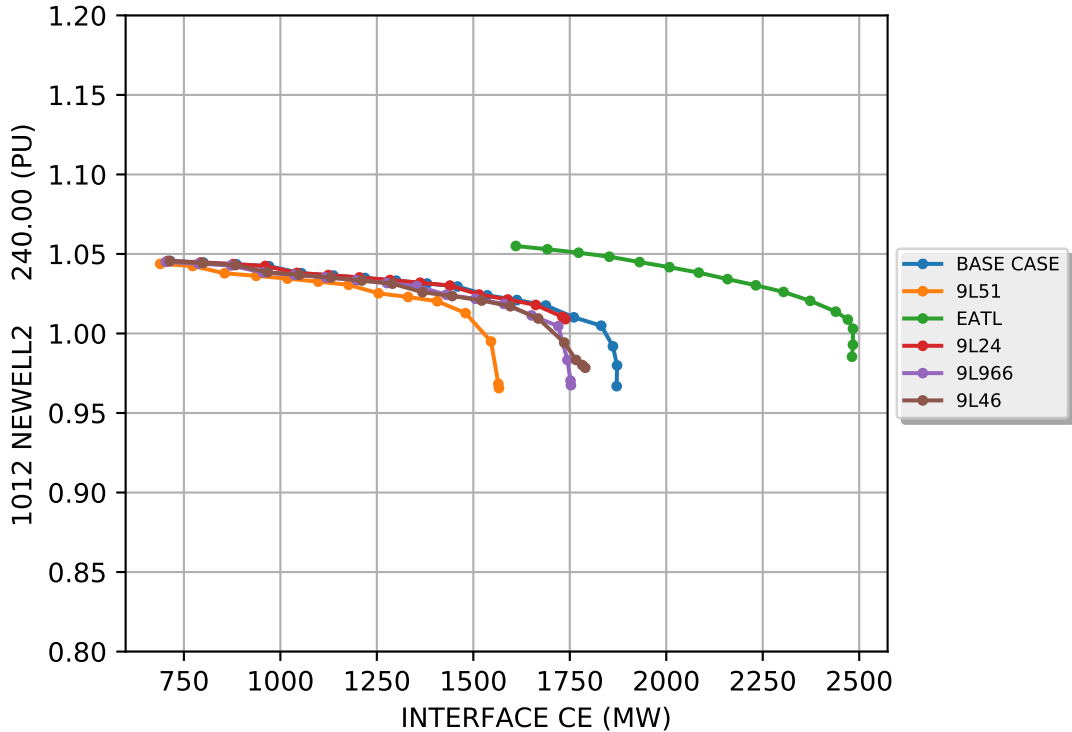


Figure: E-2-77

Case: H8, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 30.6%

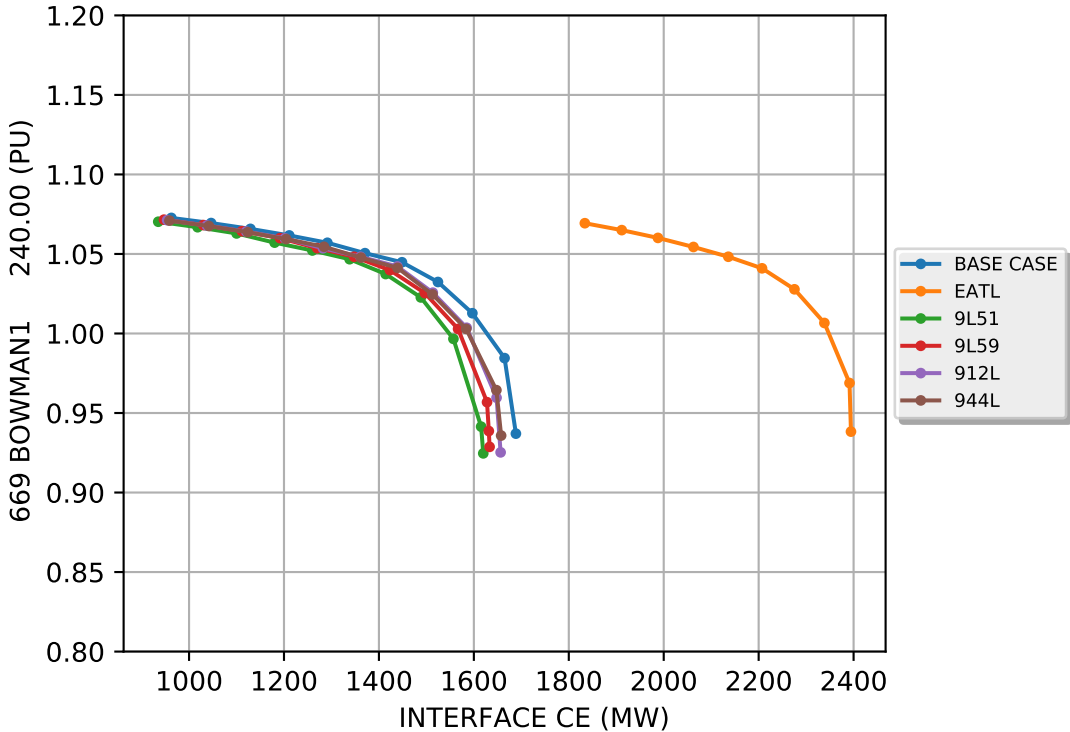


Figure: E-2-78

Case: H8, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 30.6%

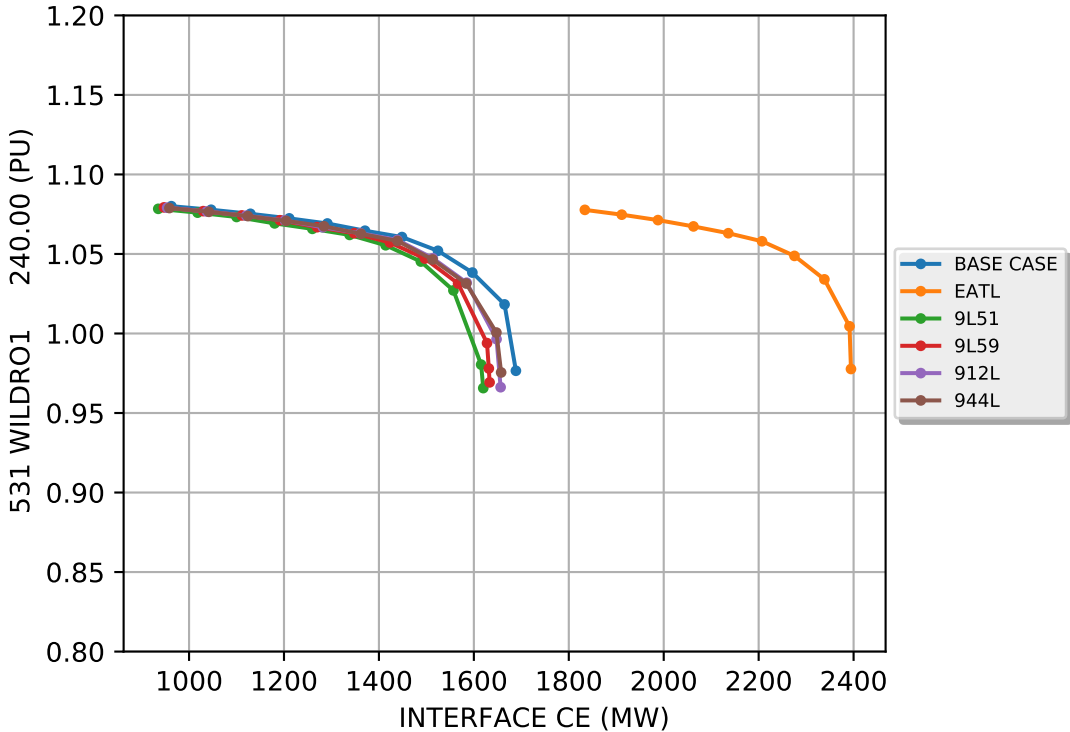


Figure: E-2-79

Case: H8, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 30.6%

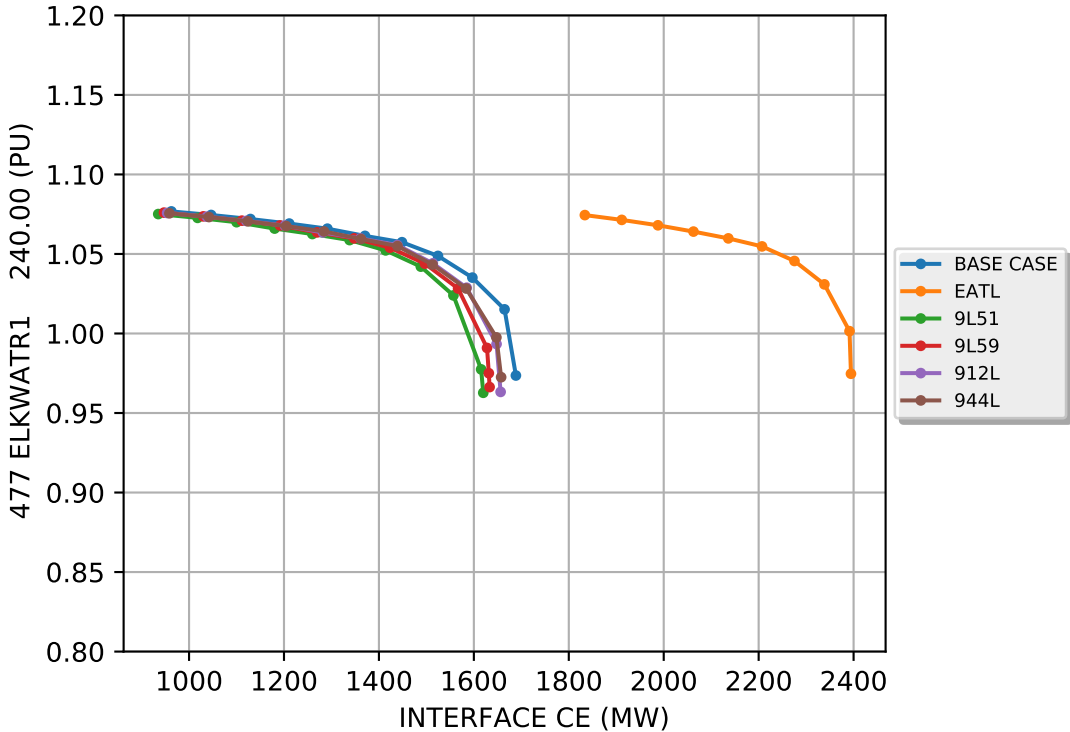


Figure: E-2-80

Case: H8, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 30.6%

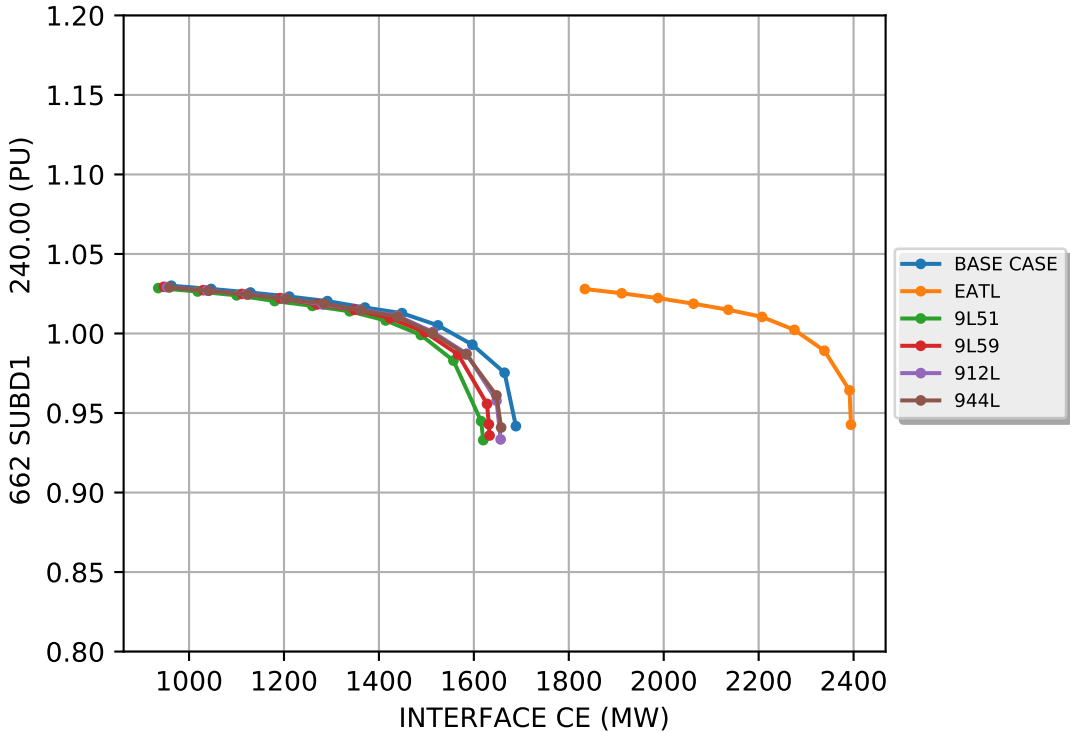


Figure: E-2-81

Case: H8, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 30.6%

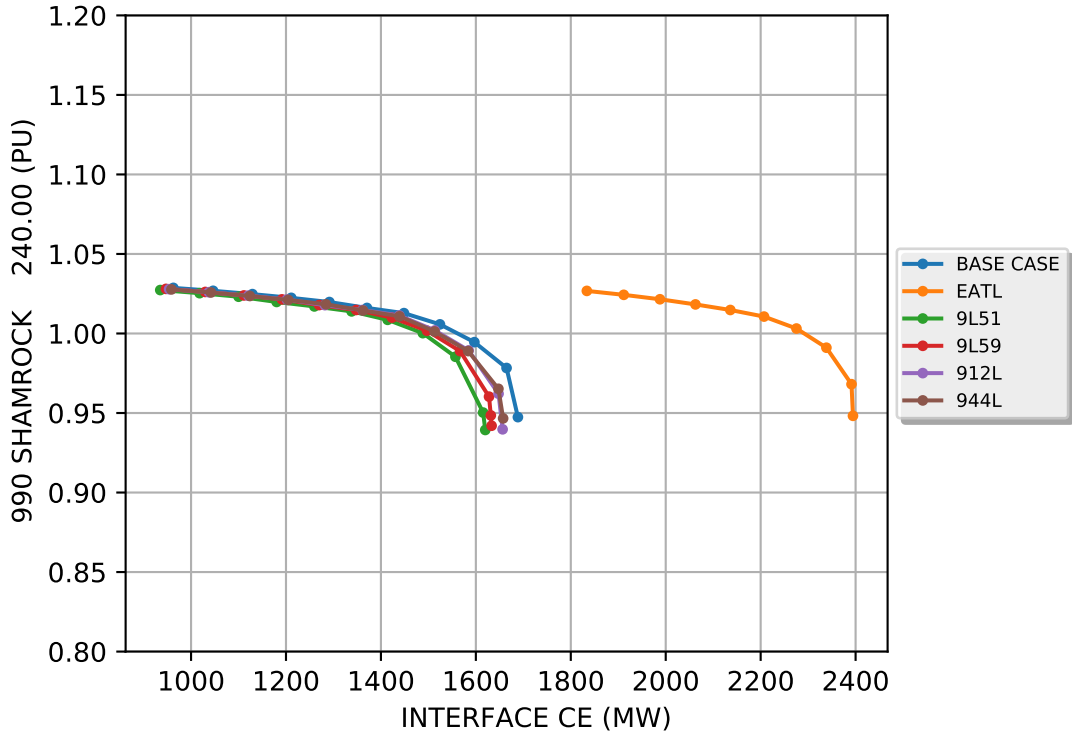


Figure: E-2-82

Case: H8, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 30.6%

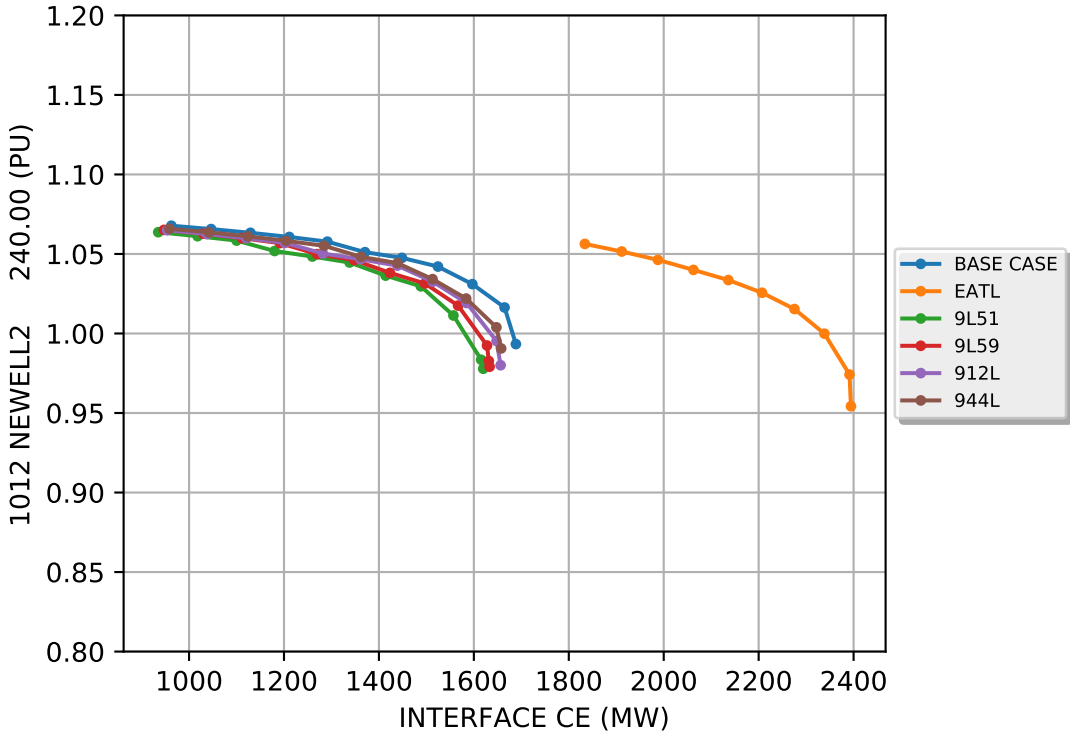


Figure: E-2-83

Case: H8, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 30.6%

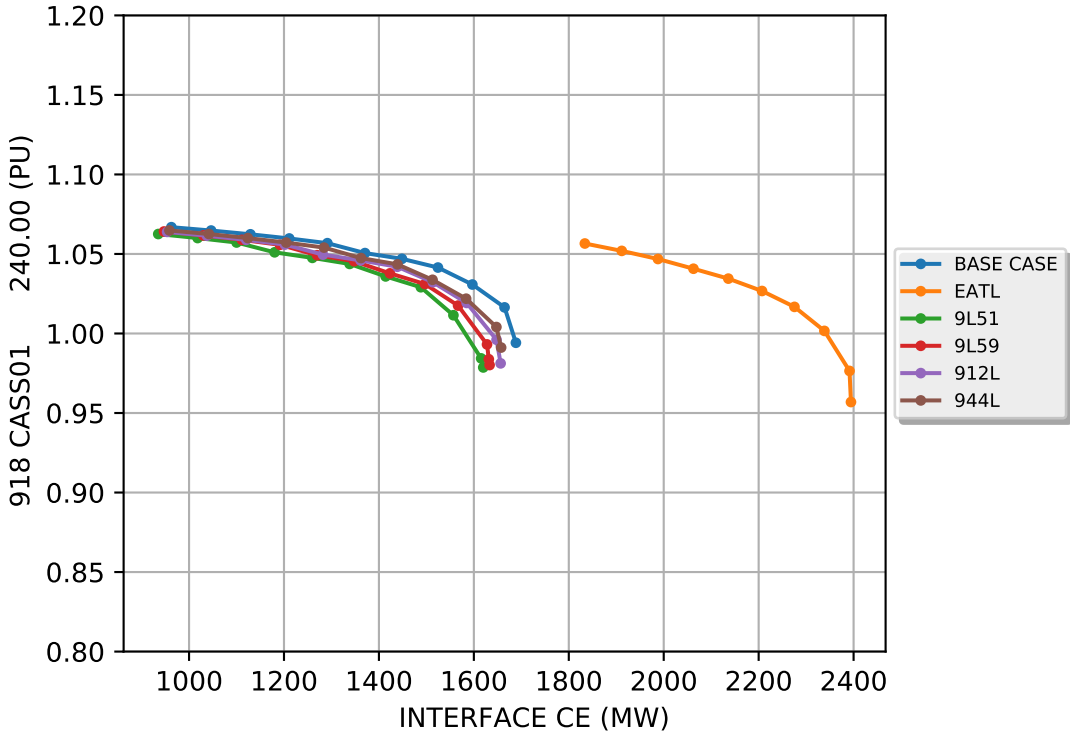


Figure: E-2-84

Case: H9, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 42.5%

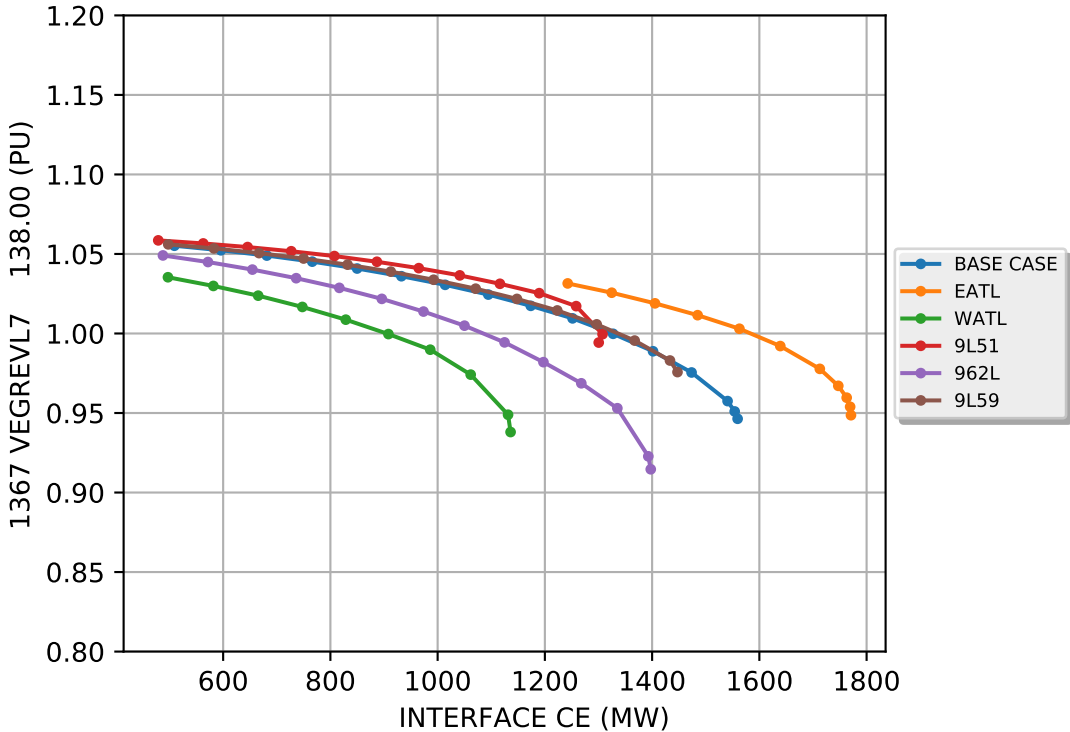


Figure: E-2-85

Case: H9, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 42.5%

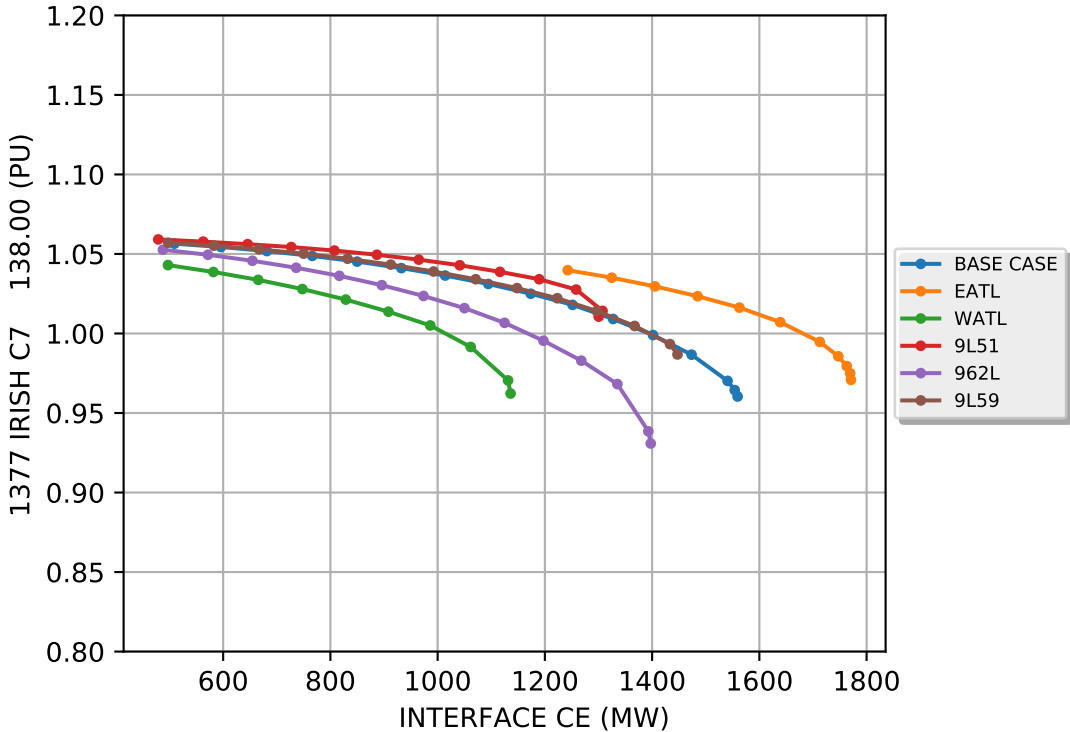


Figure: E-2-86

Case: H9, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 42.5%

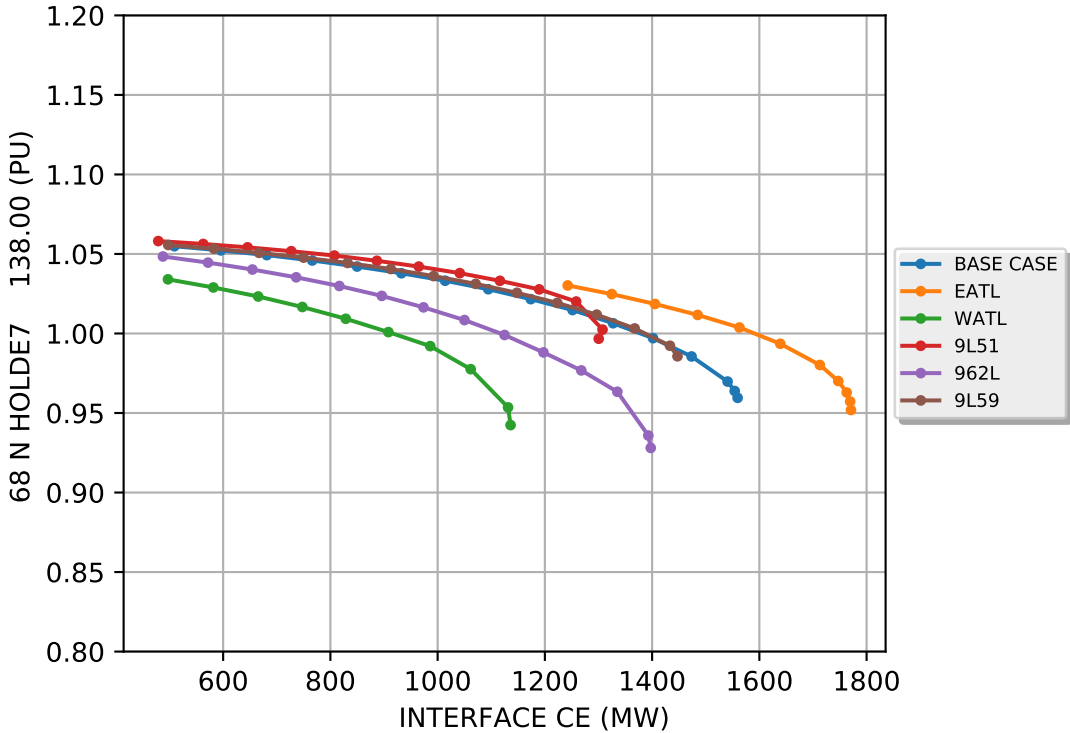


Figure: E-2-87

Case: H9, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 42.5%

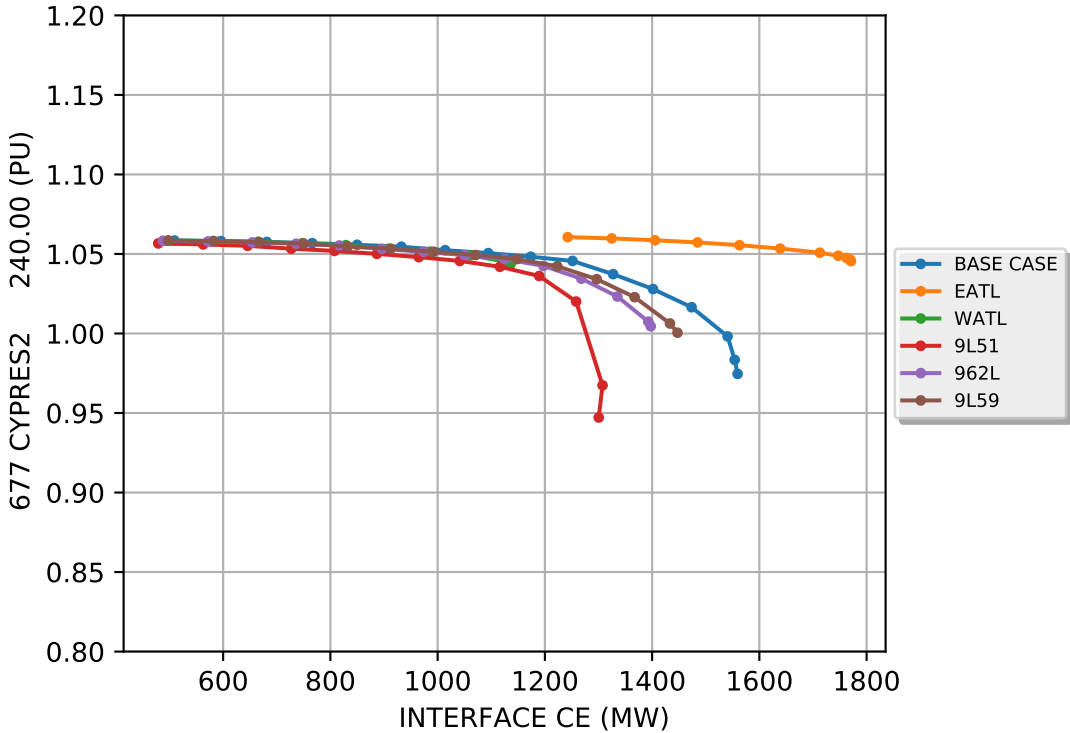


Figure: E-2-88

Case: H9, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 42.5%

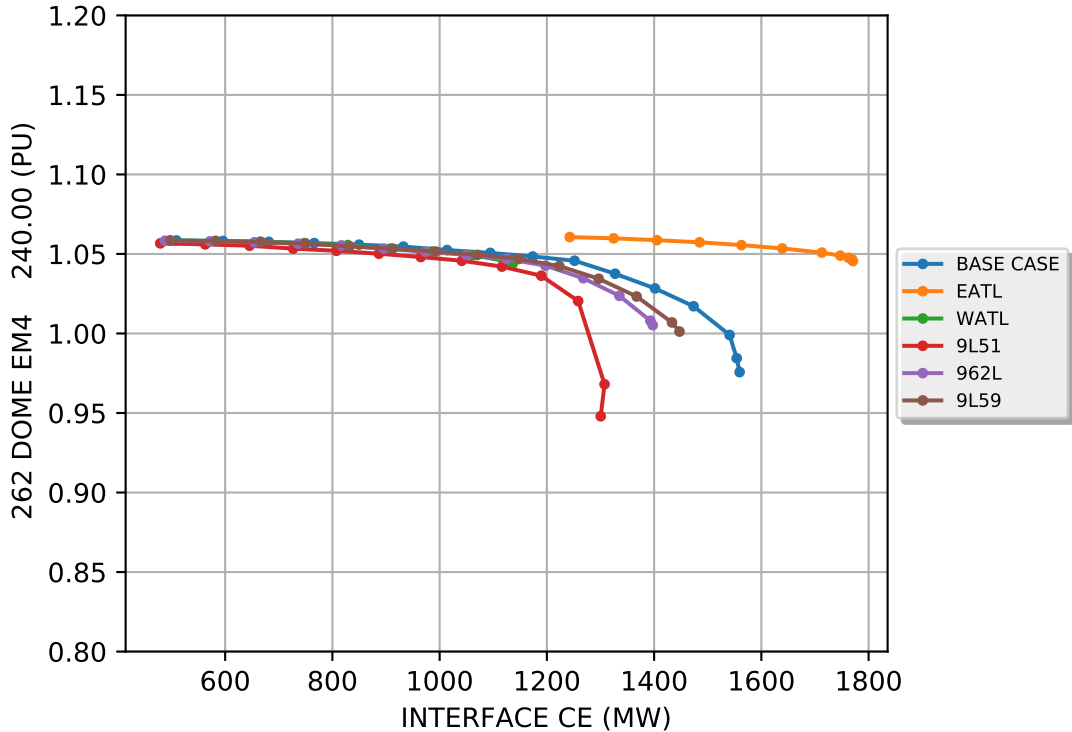


Figure: E-2-89

Case: H9, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 42.5%

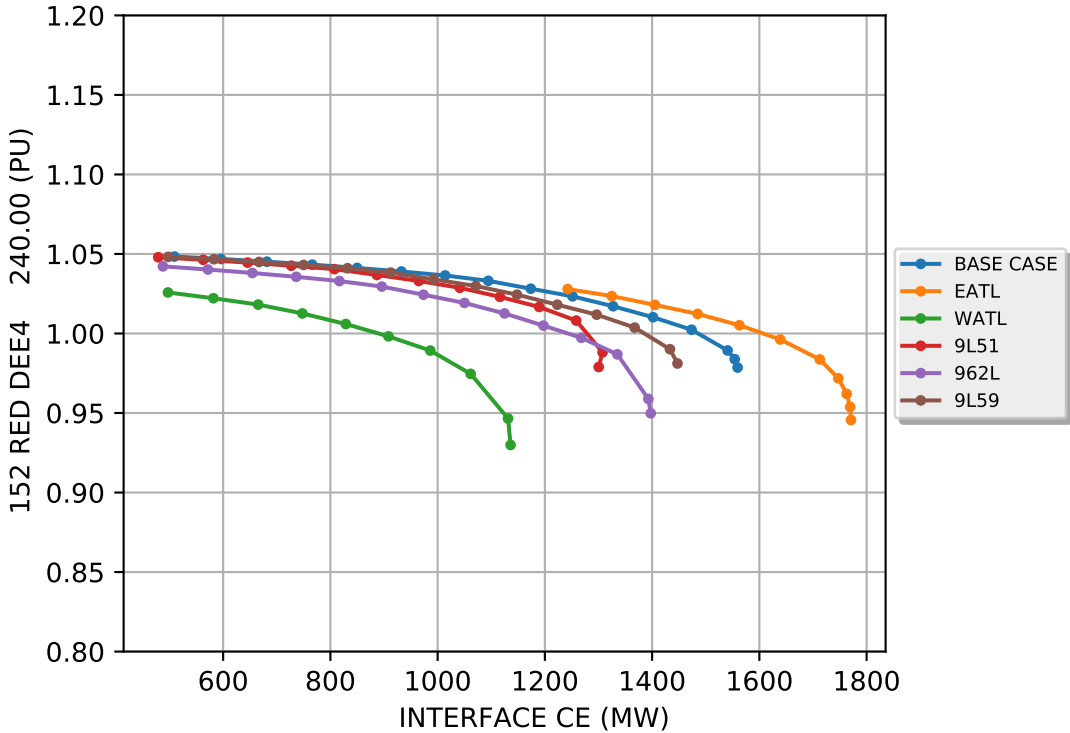


Figure: E-2-90

Case: H9, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 42.5%

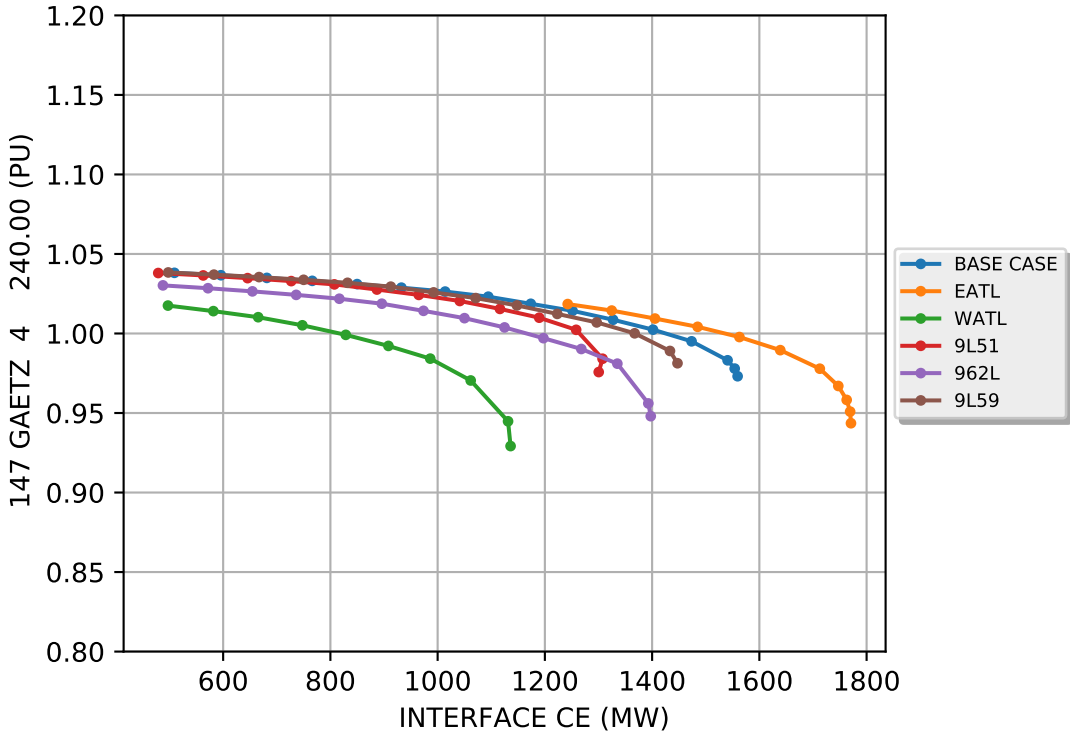


Figure: E-2-91

Case: H9, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 42.5%

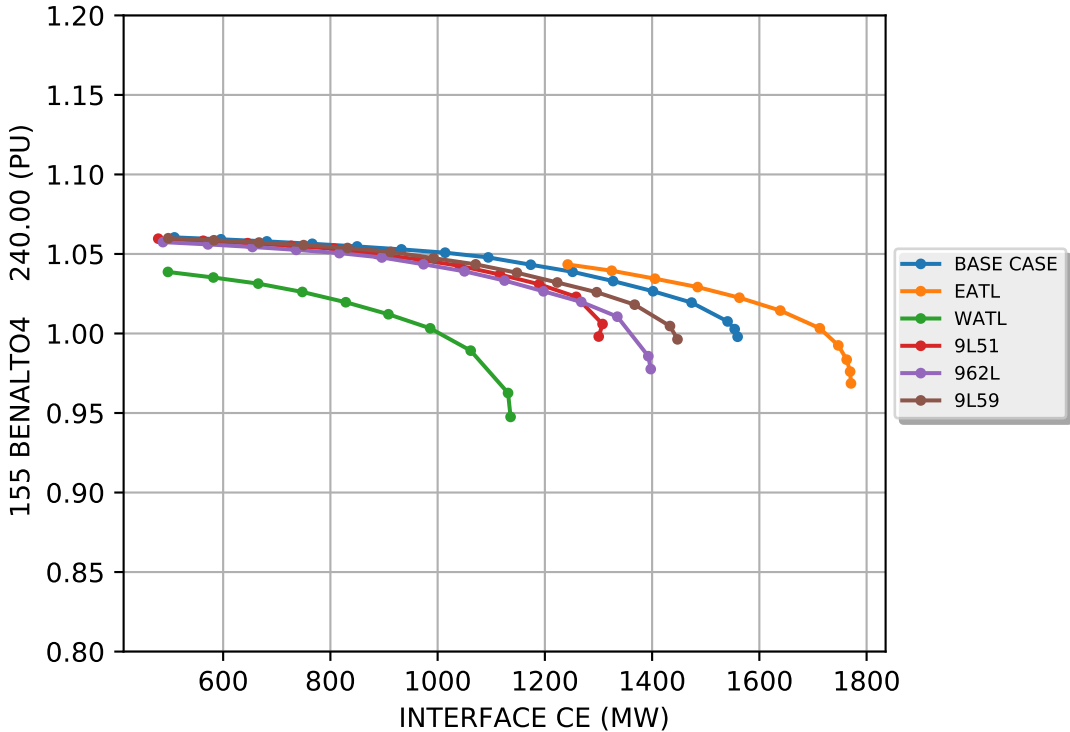


Figure: E-2-92

Case: H9, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 42.5%

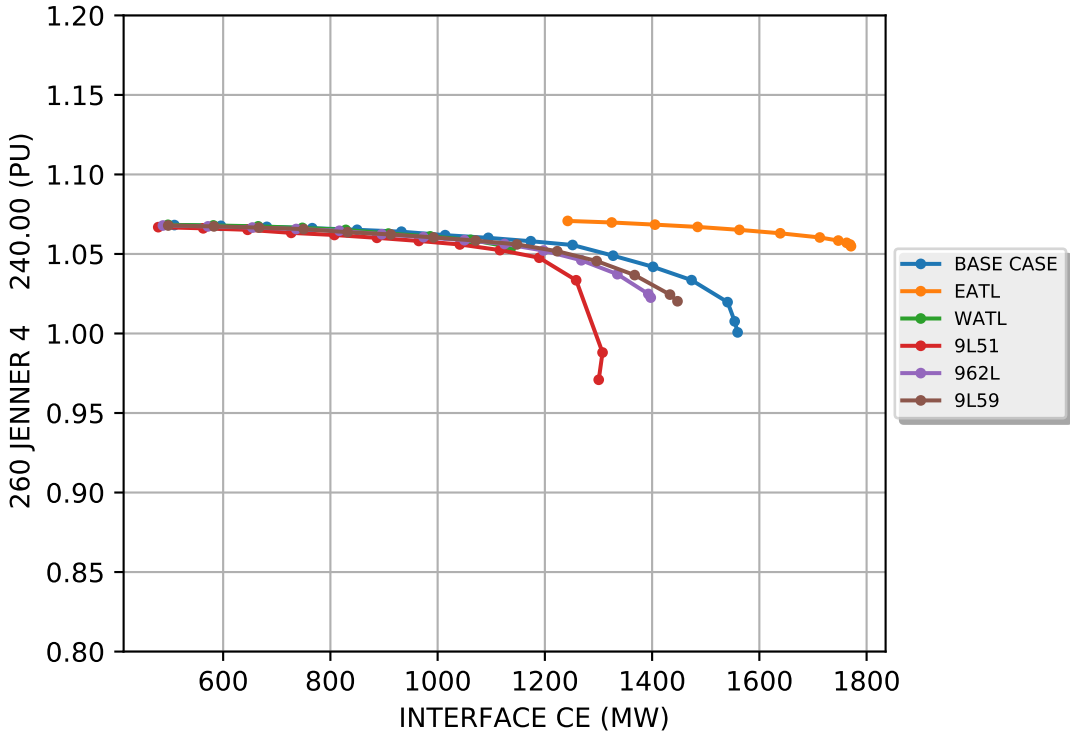


Figure: E-2-93

Case: H9, Option: BOTH

Min Voltage: 0.98 PU, Min Margin: 42.5%

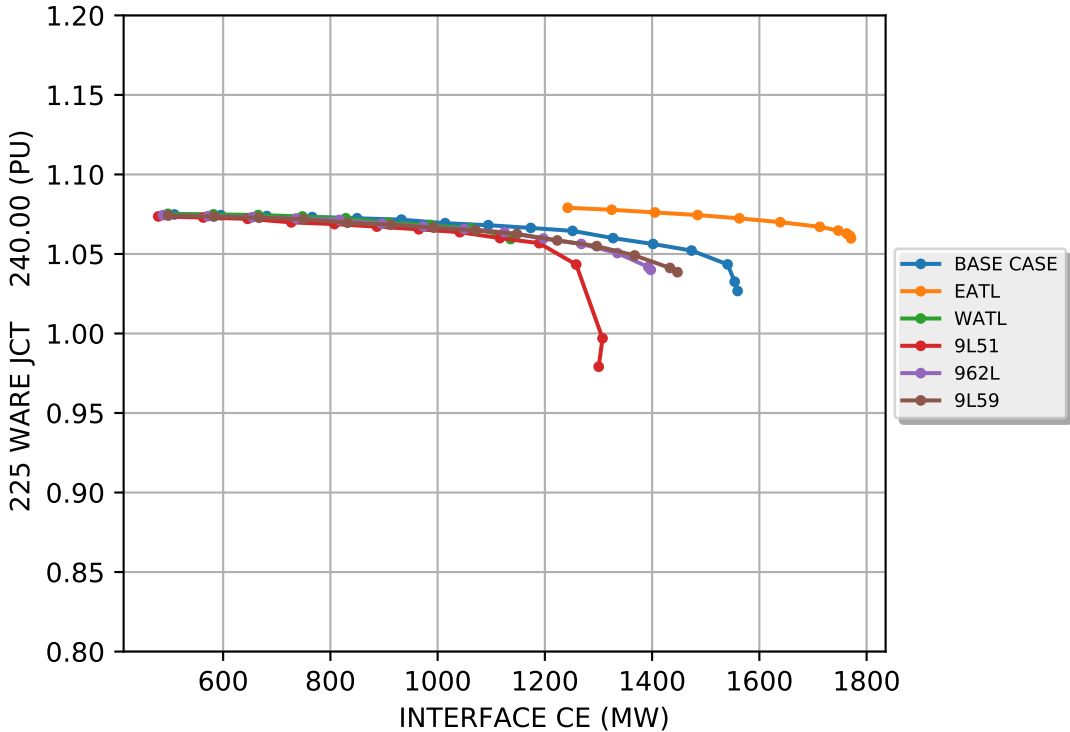


Figure: E-2-94

Case: H9, Option: BOTH

Min Voltage: 0.99 PU, Min Margin: 42.5%

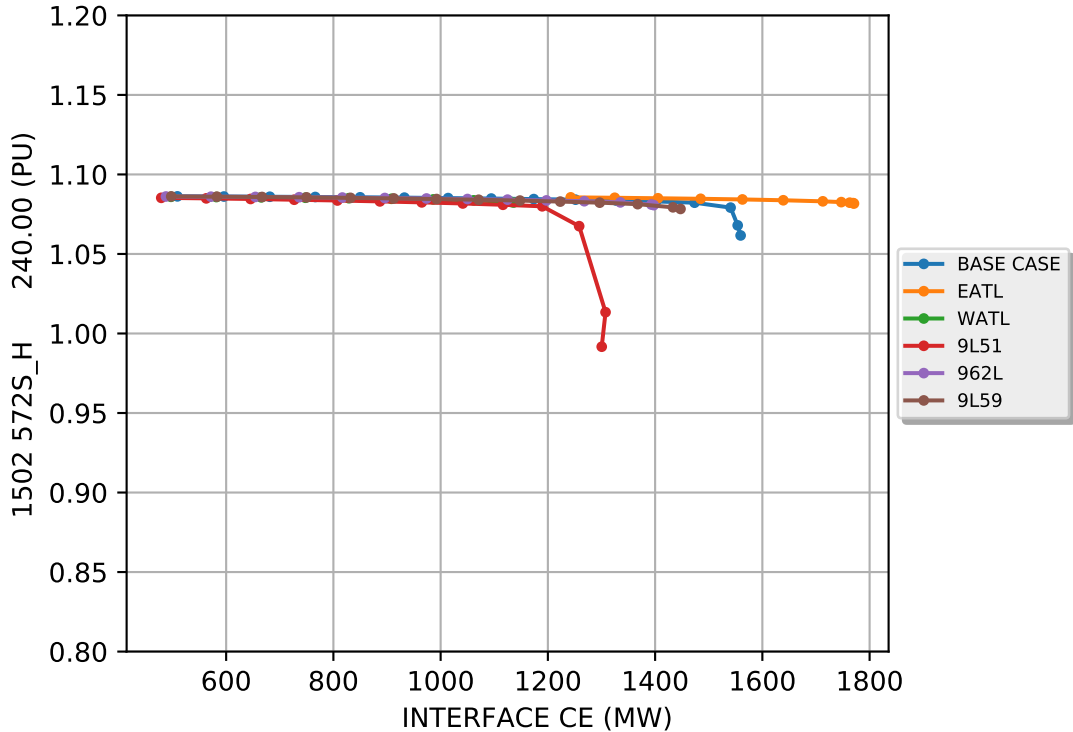


Figure: E-2-95

Case: H9, Option: BOTH

Min Voltage: 0.98 PU, Min Margin: 42.5%

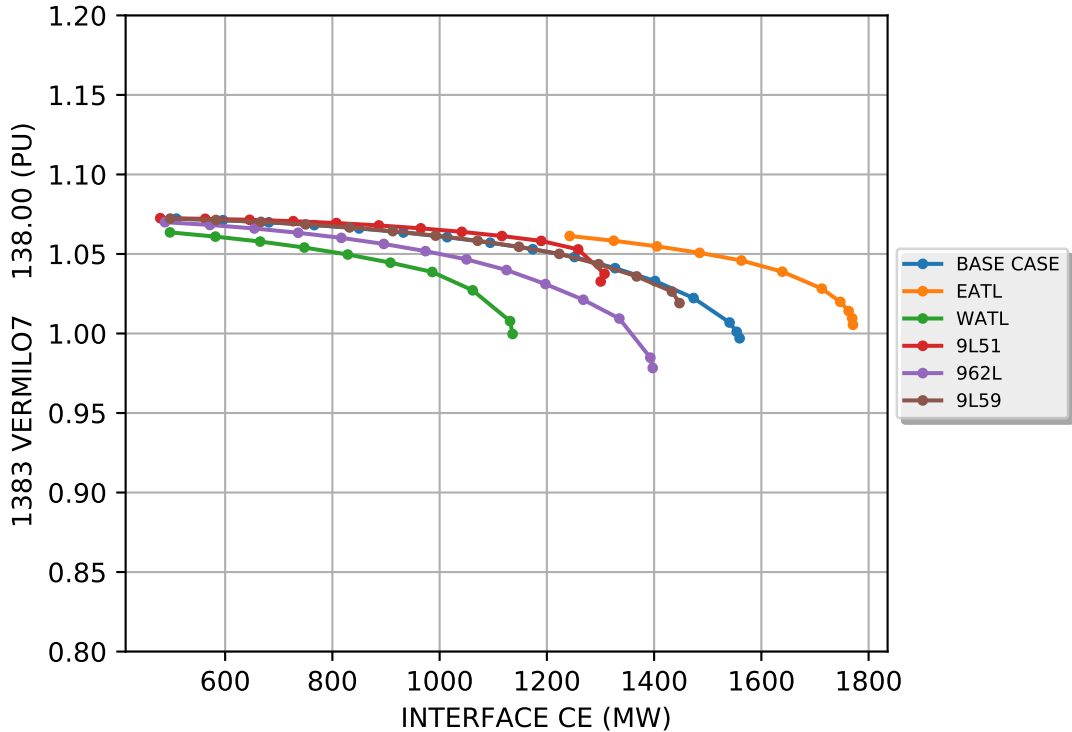


Figure: E-2-96

Case: H9, Option: BOTH

Min Voltage: 0.98 PU, Min Margin: 42.5%

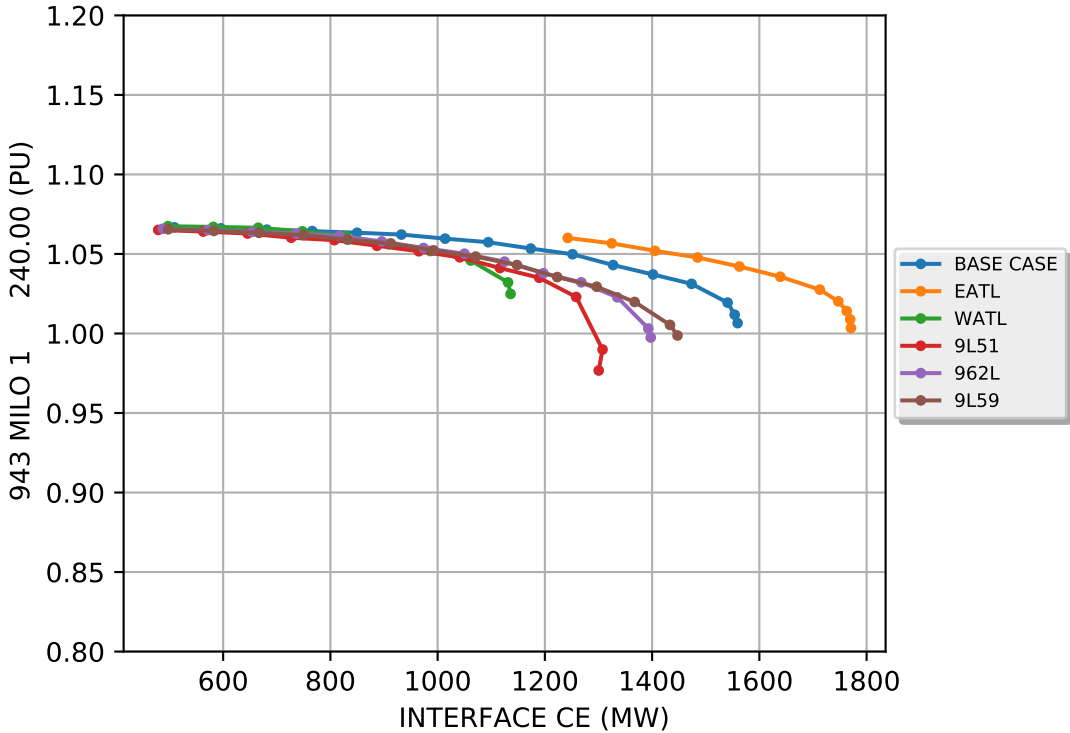


Figure: E-2-97

Case: M9, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 26.7%

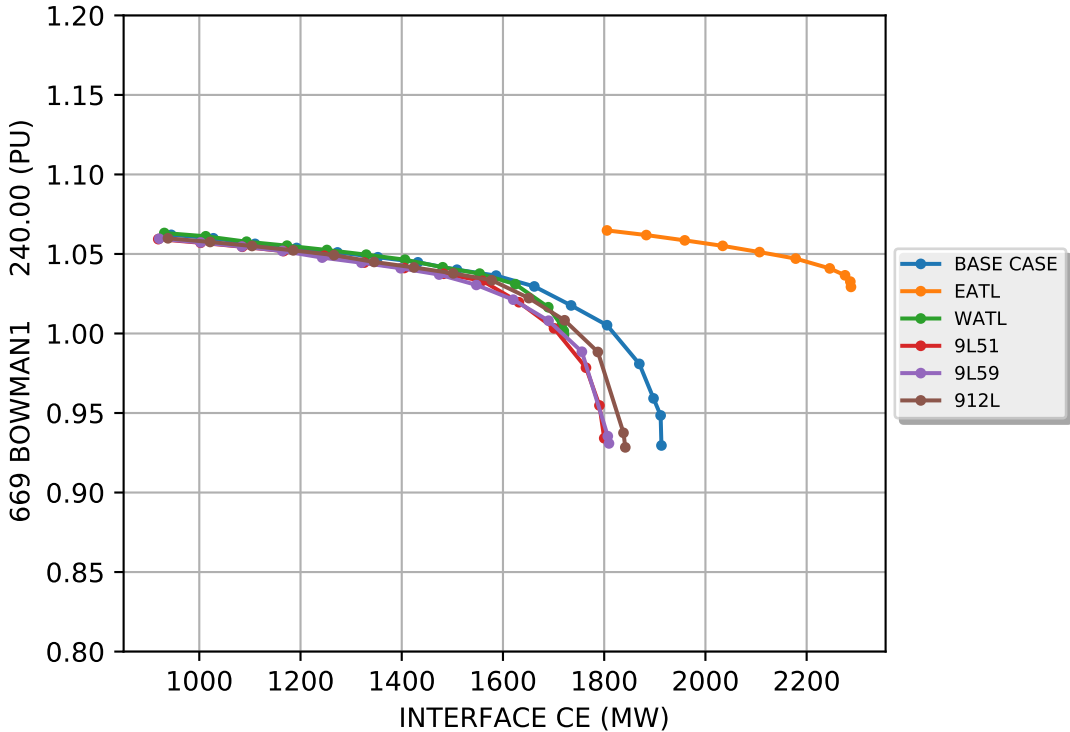


Figure: E-2-98

Case: M9, Option: BOTH

Min Voltage: 0.86 PU, Min Margin: 26.7%

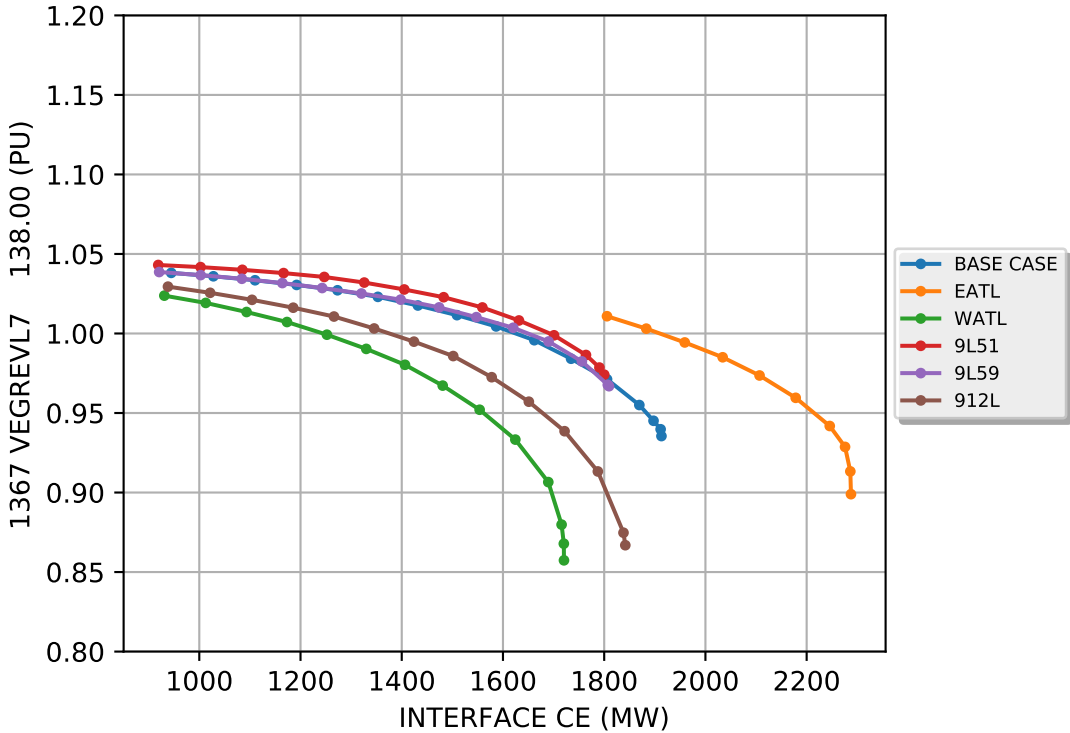


Figure: E-2-99

Case: M9, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 26.7%

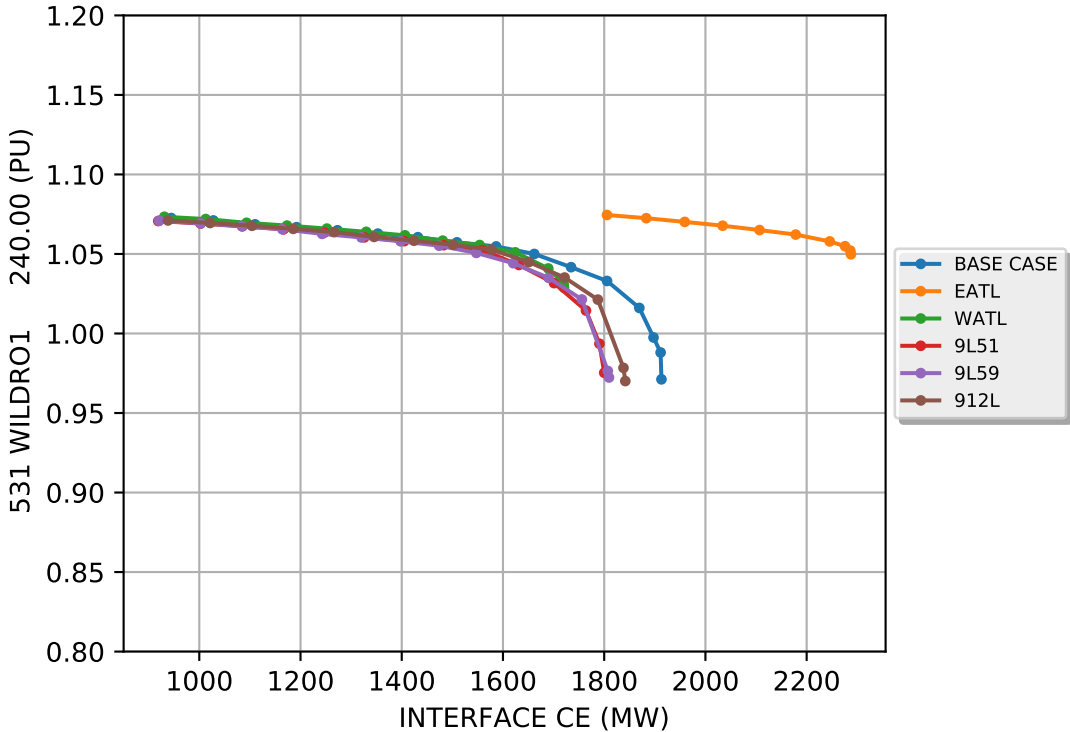


Figure: E-2-100

Case: M9, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 26.7%

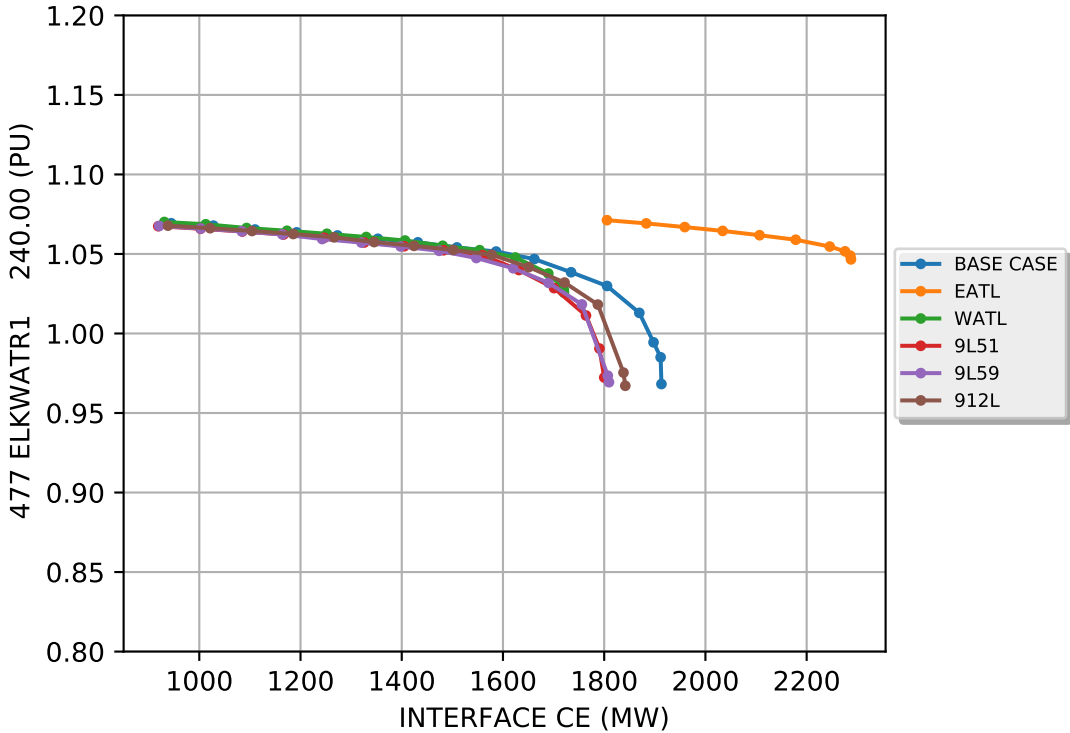


Figure: E-2-101

Case: M9, Option: BOTH

Min Voltage: 0.89 PU, Min Margin: 26.7%

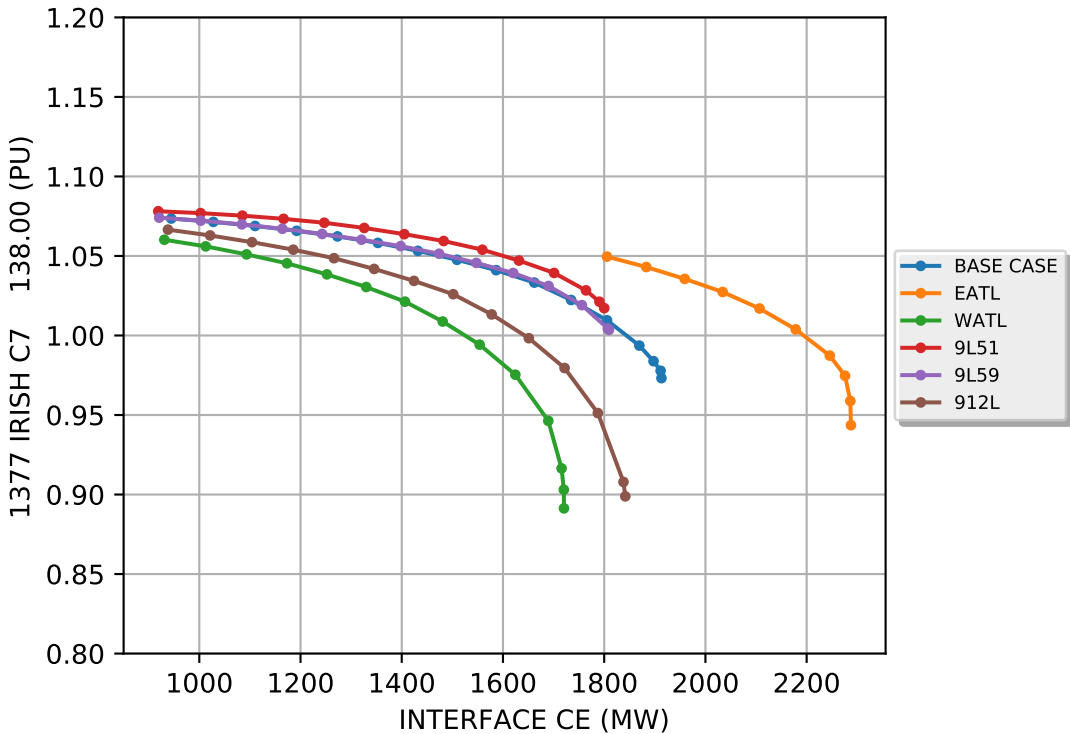


Figure: E-2-102

Case: M9, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 26.7%

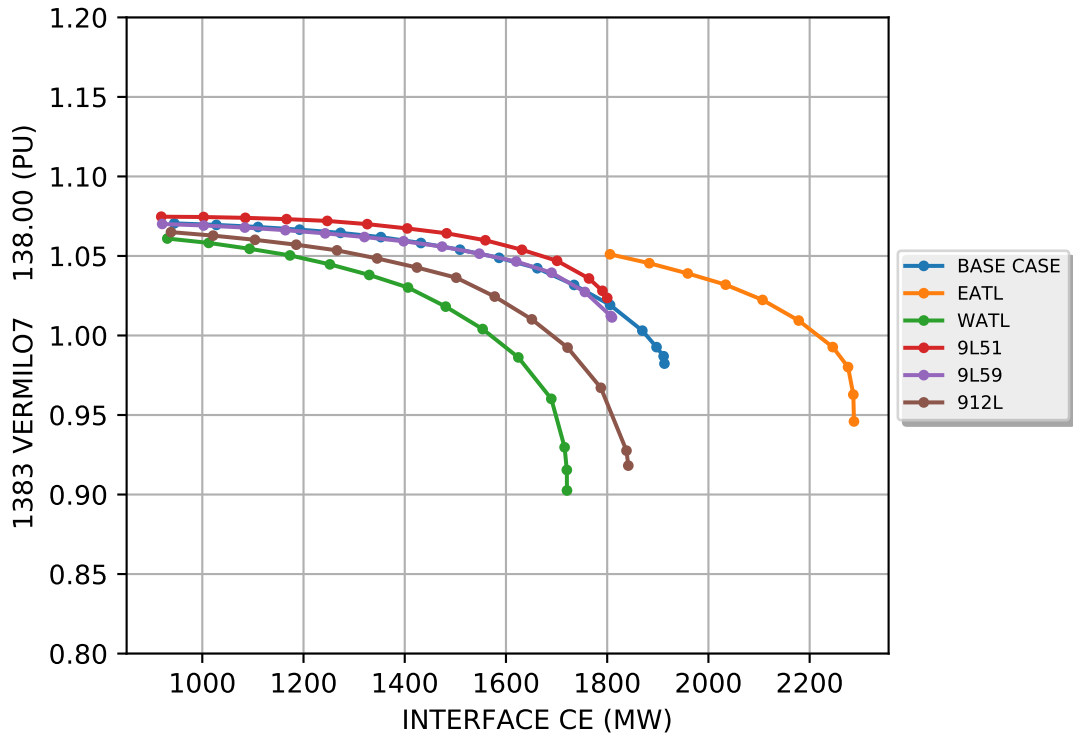


Figure: E-2-103

Case: M9, Option: BOTH

Min Voltage: 0.87 PU, Min Margin: 26.7%

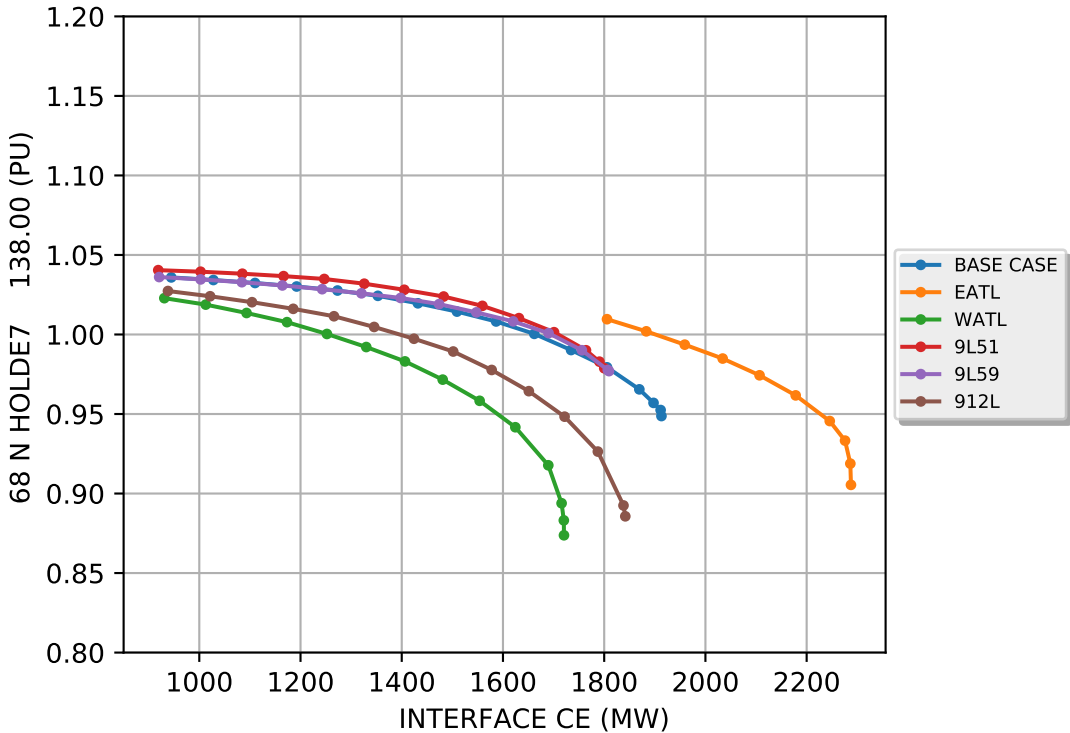


Figure: E-2-104

Case: M9, Option: BOTH

Min Voltage: 0.89 PU, Min Margin: 26.7%

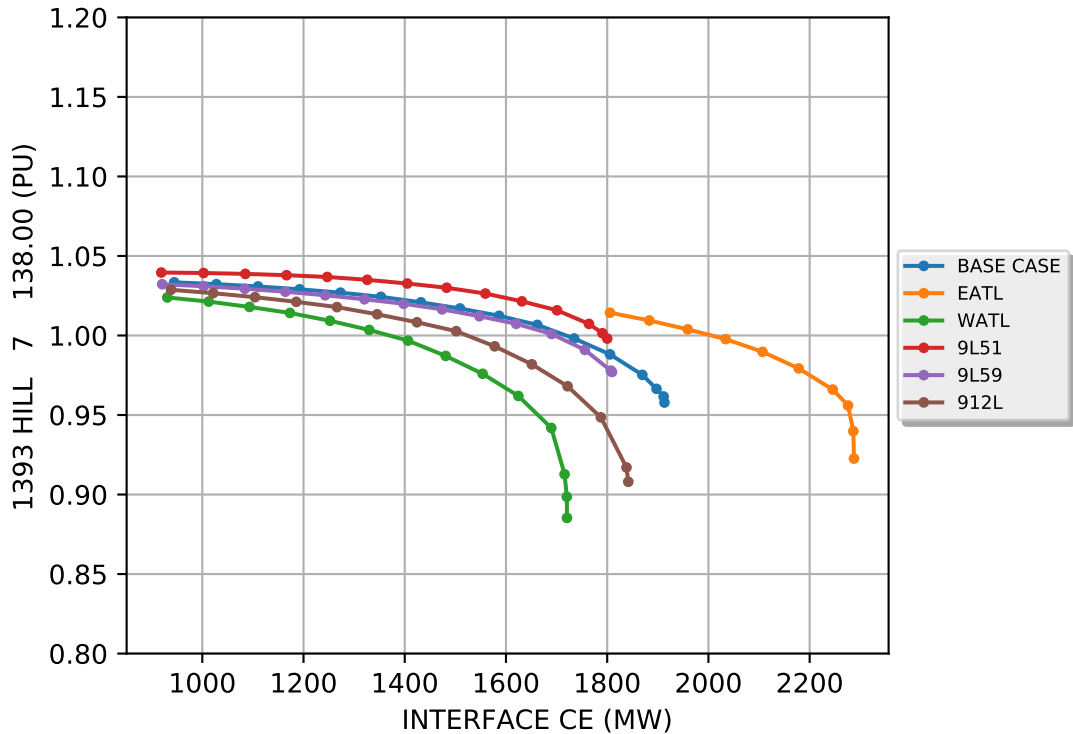


Figure: E-2-105

Case: M9, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 26.7%

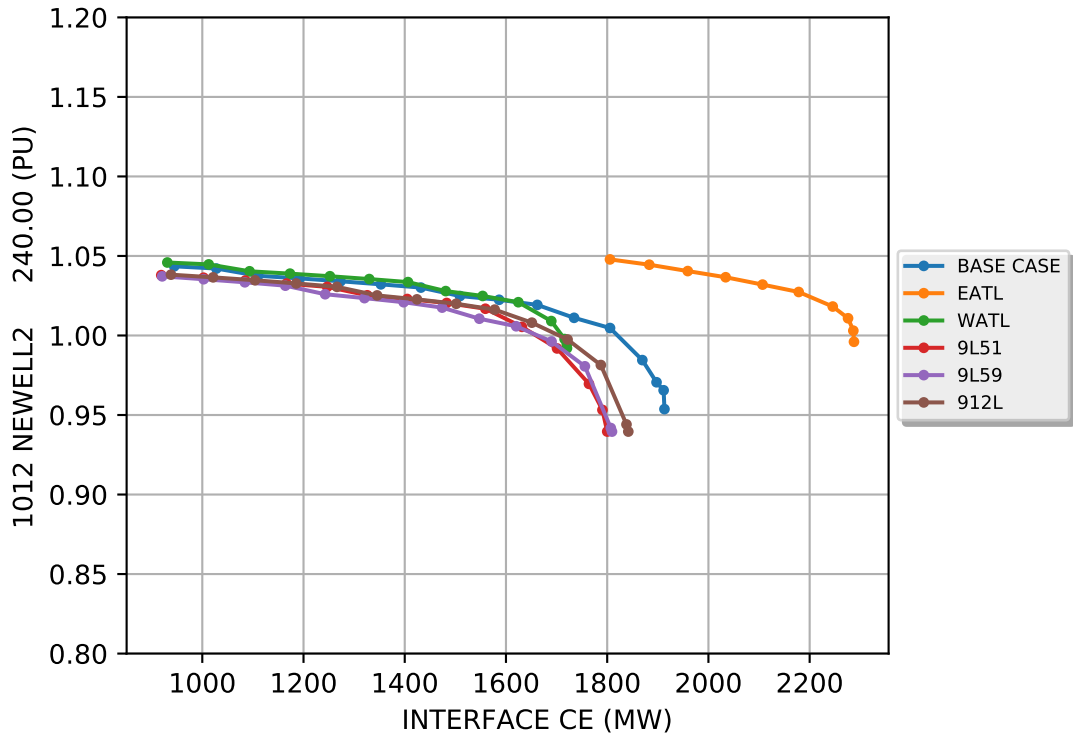


Figure: E-2-106

Case: M9, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 26.7%

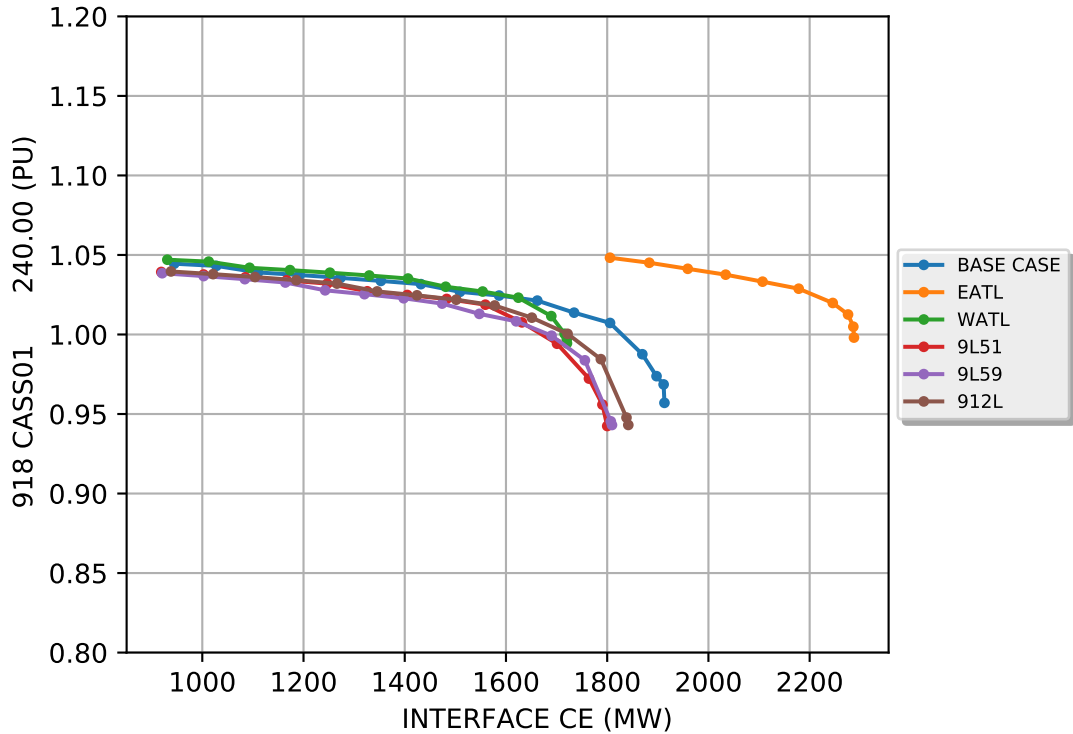


Figure: E-2-107

Case: M9, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 26.7%

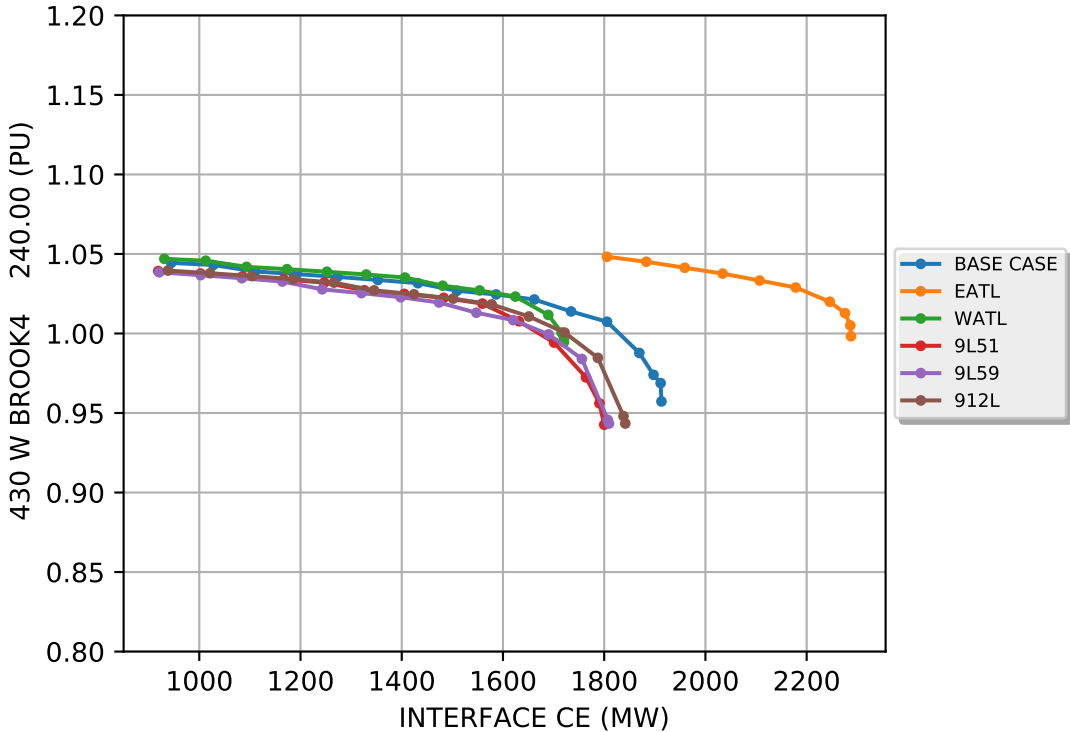


Figure: E-2-108

Case: H10, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 39.7%

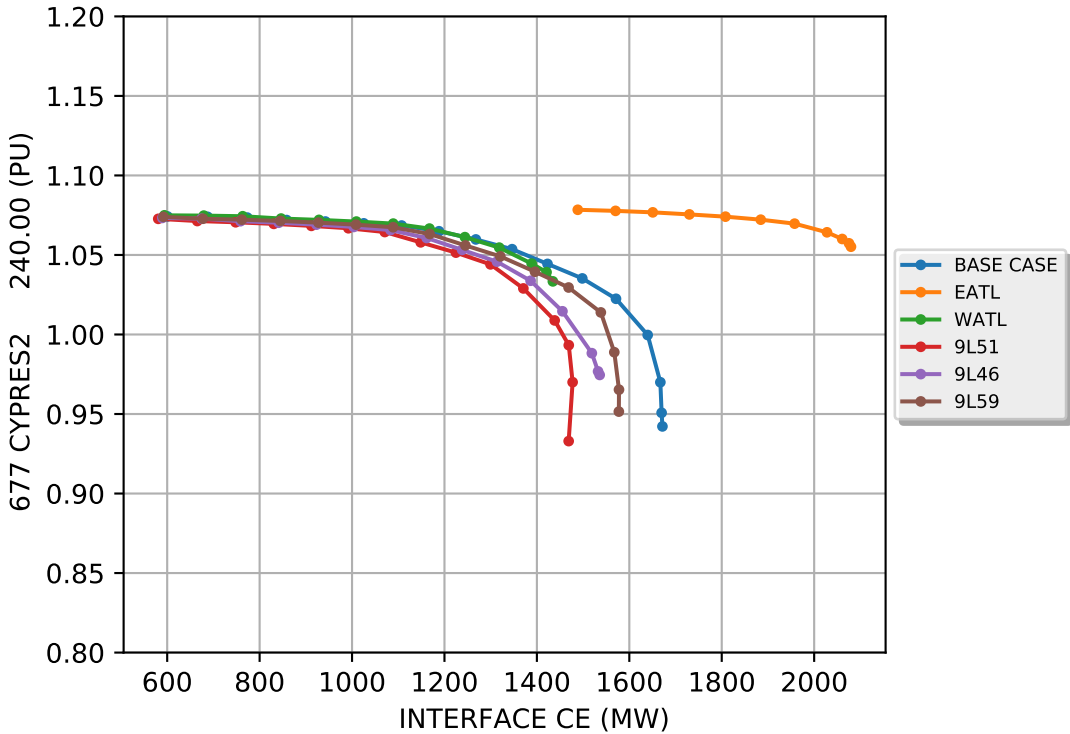


Figure: E-2-109

Case: H10, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 39.7%

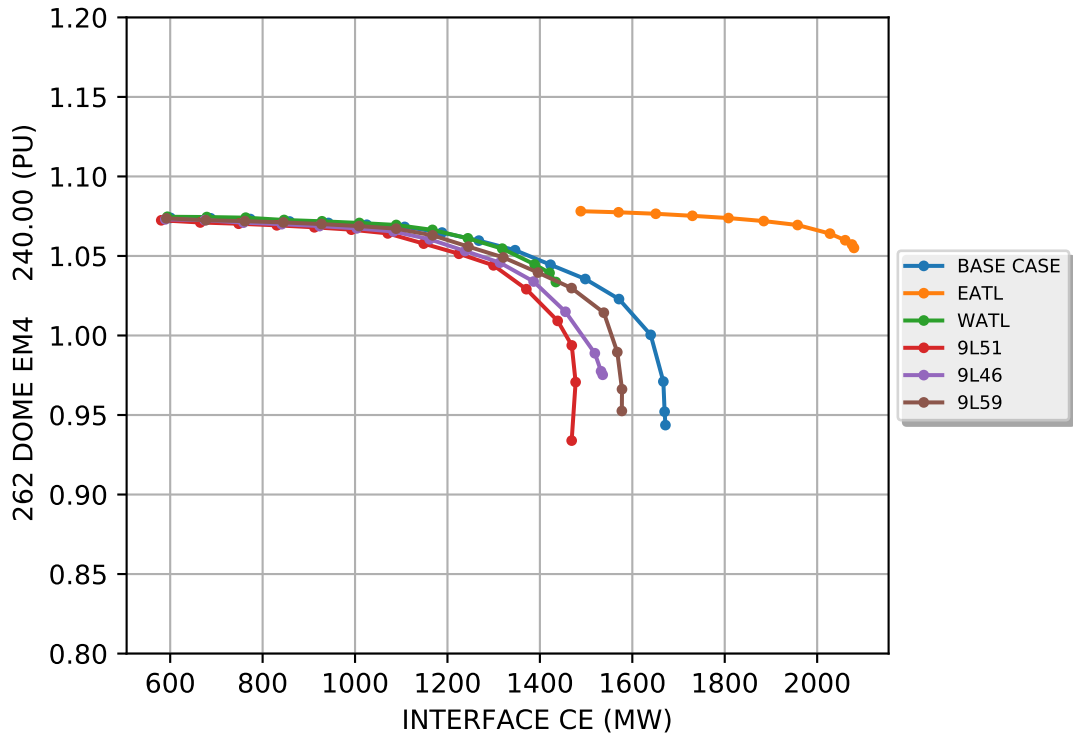


Figure: E-2-110

Case: H10, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 39.7%

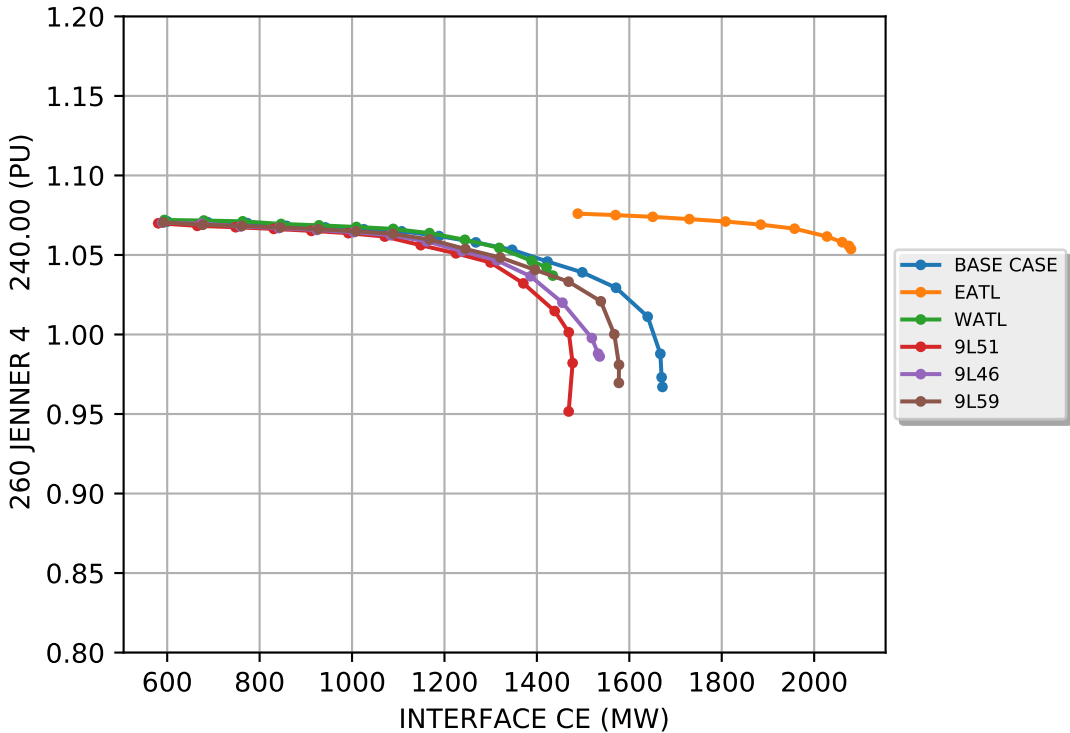


Figure: E-2-111

Case: H10, Option: BOTH

Min Voltage: 0.89 PU, Min Margin: 39.7%

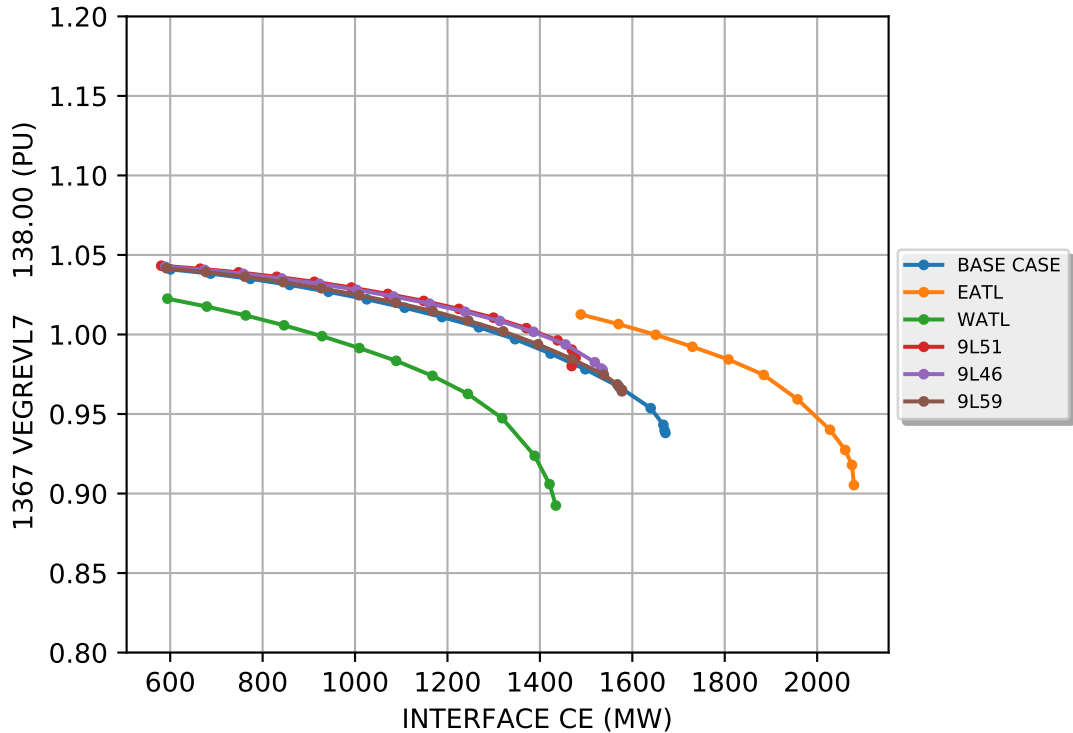


Figure: E-2-112

Case: H10, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 39.7%

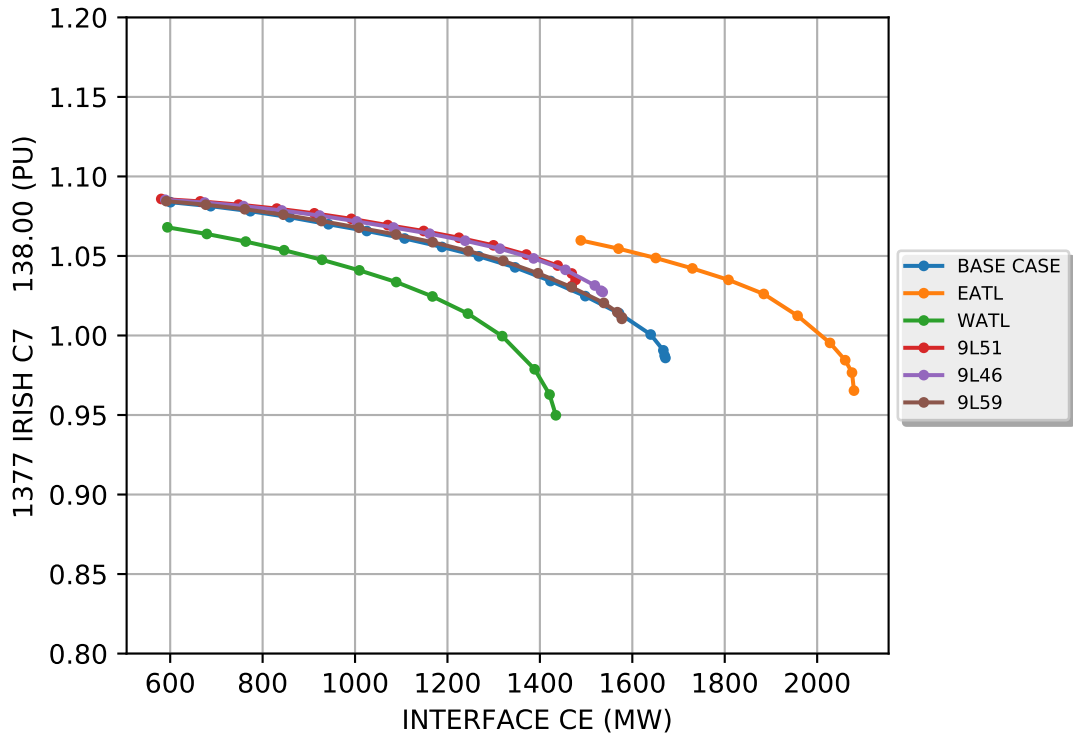


Figure: E-2-113

Case: H10, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 39.7%

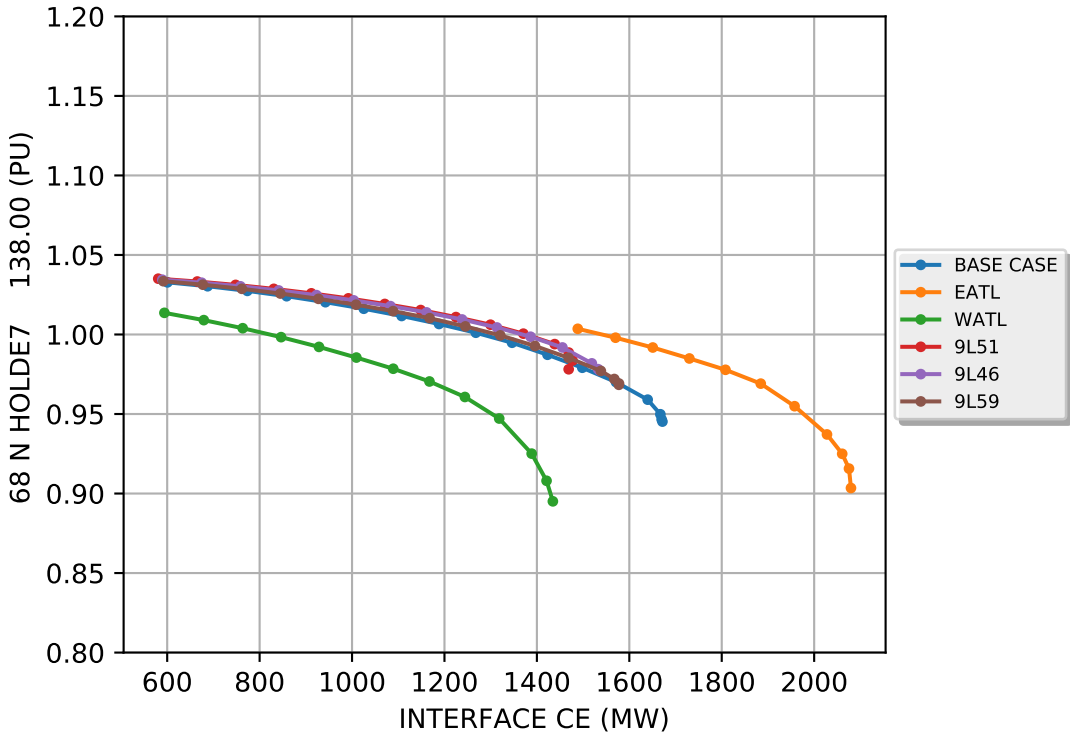


Figure: E-2-114

Case: H10, Option: BOTH

Min Voltage: 0.98 PU, Min Margin: 39.7%

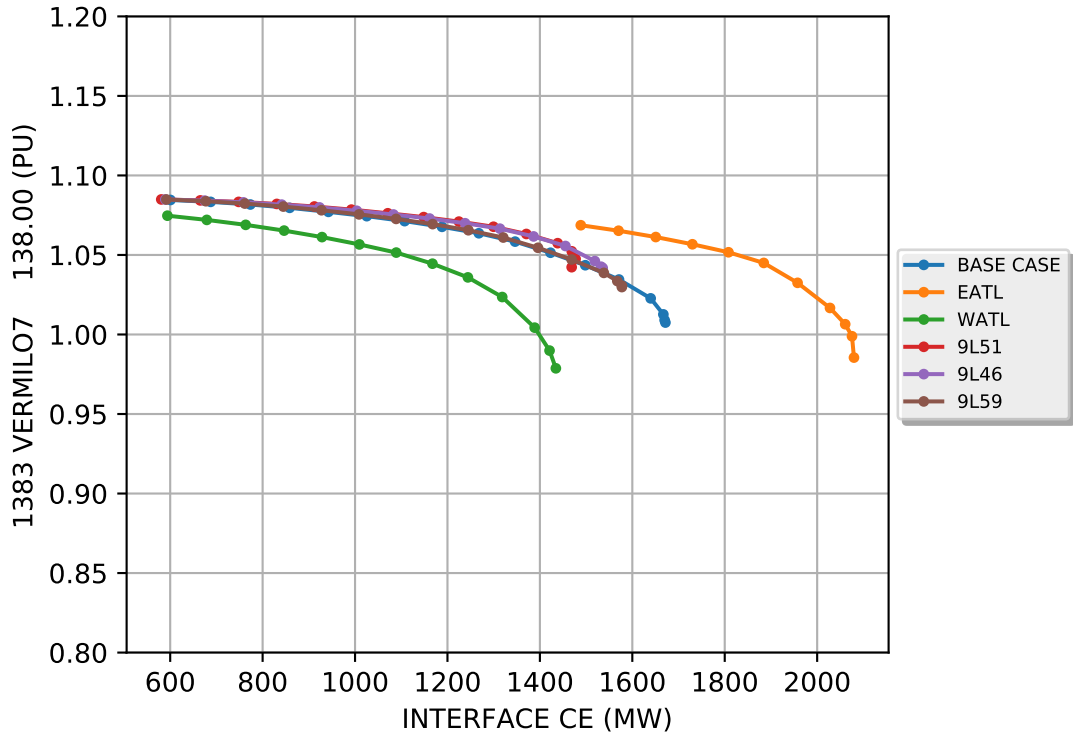


Figure: E-2-115

Case: H10, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 39.7%

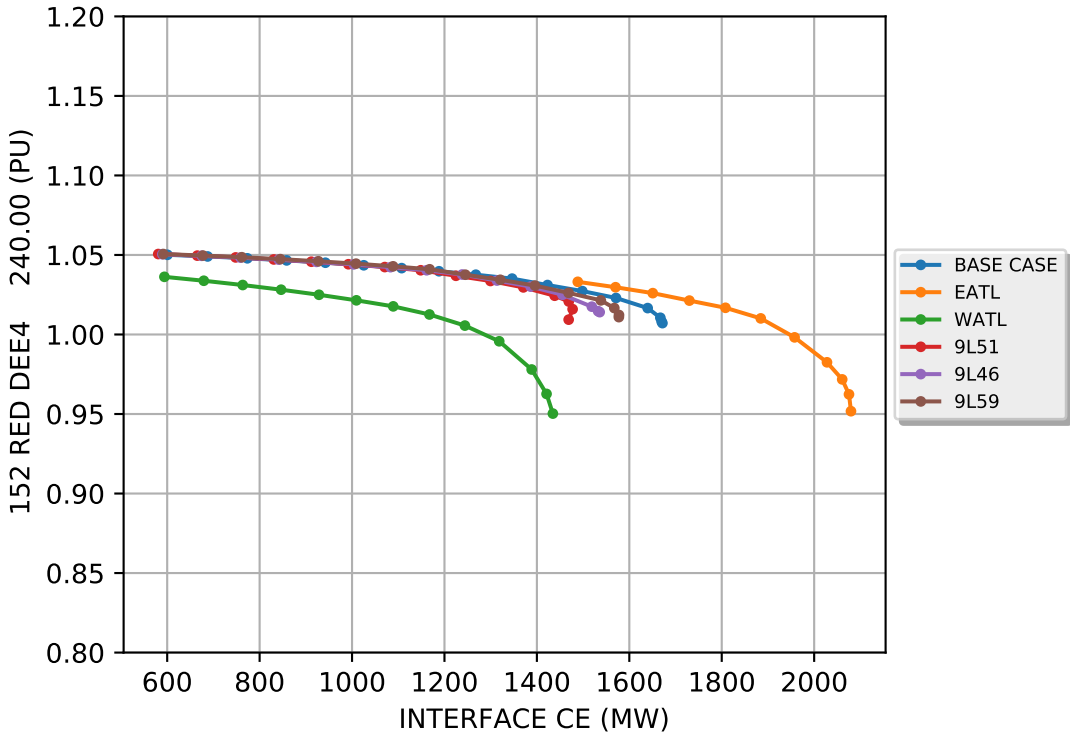


Figure: E-2-116

Case: H10, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 39.7%

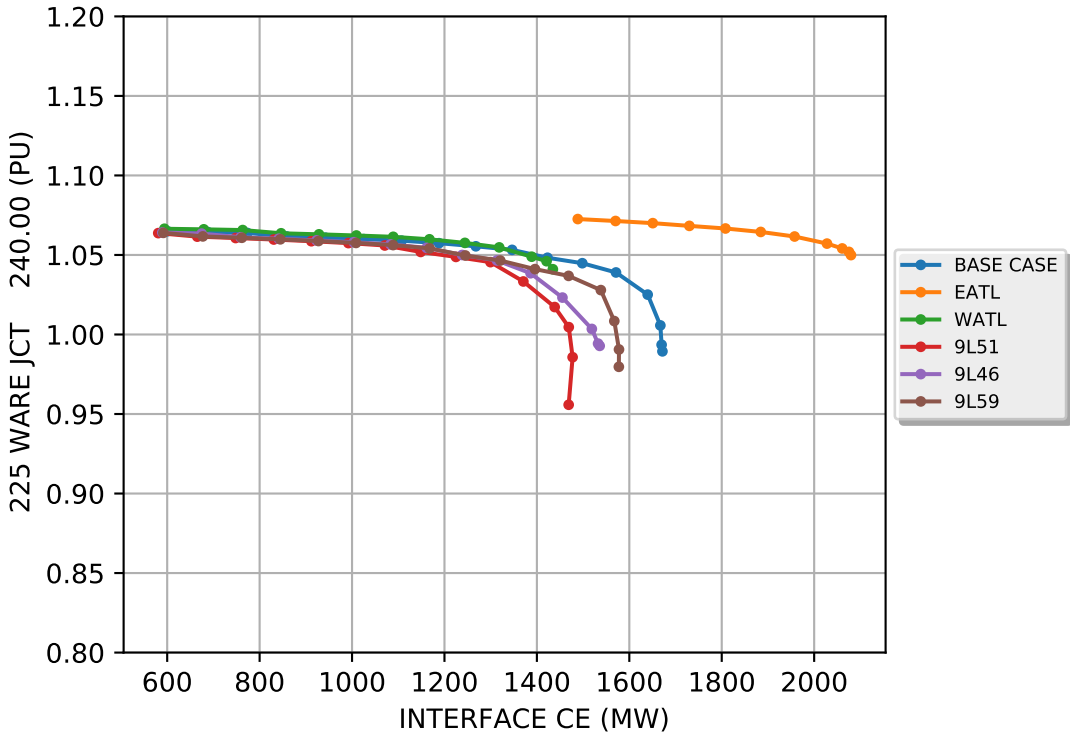


Figure: E-2-117

Case: H10, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 39.7%

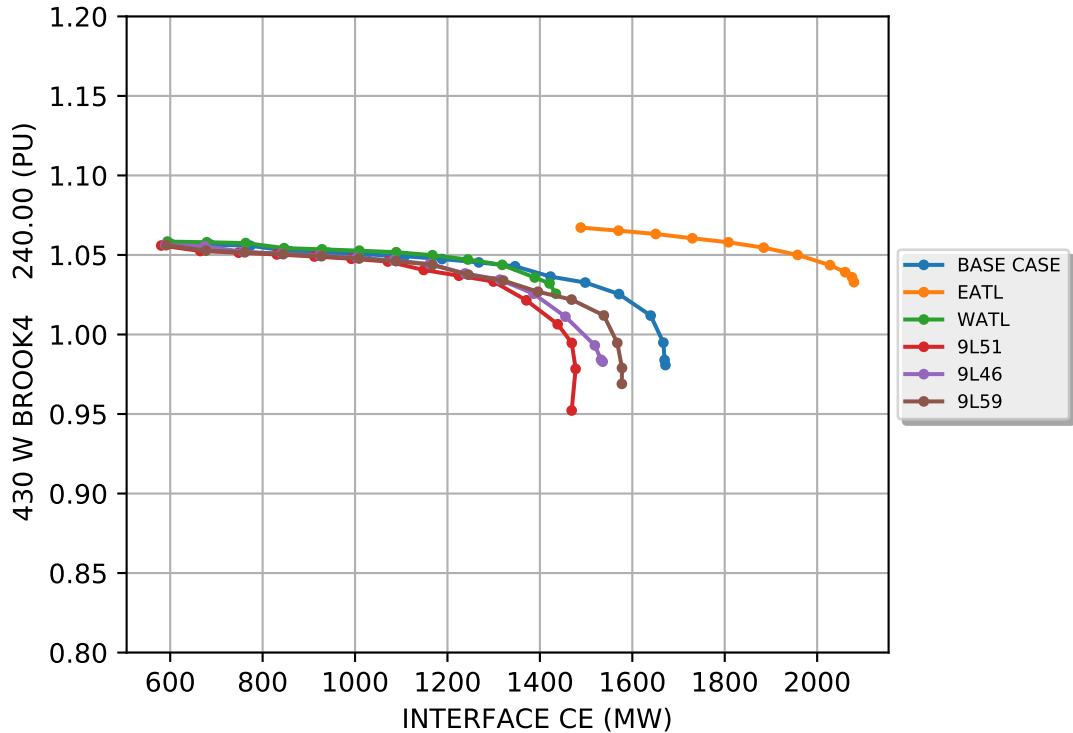


Figure: E-2-118

Case: H10, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 39.7%

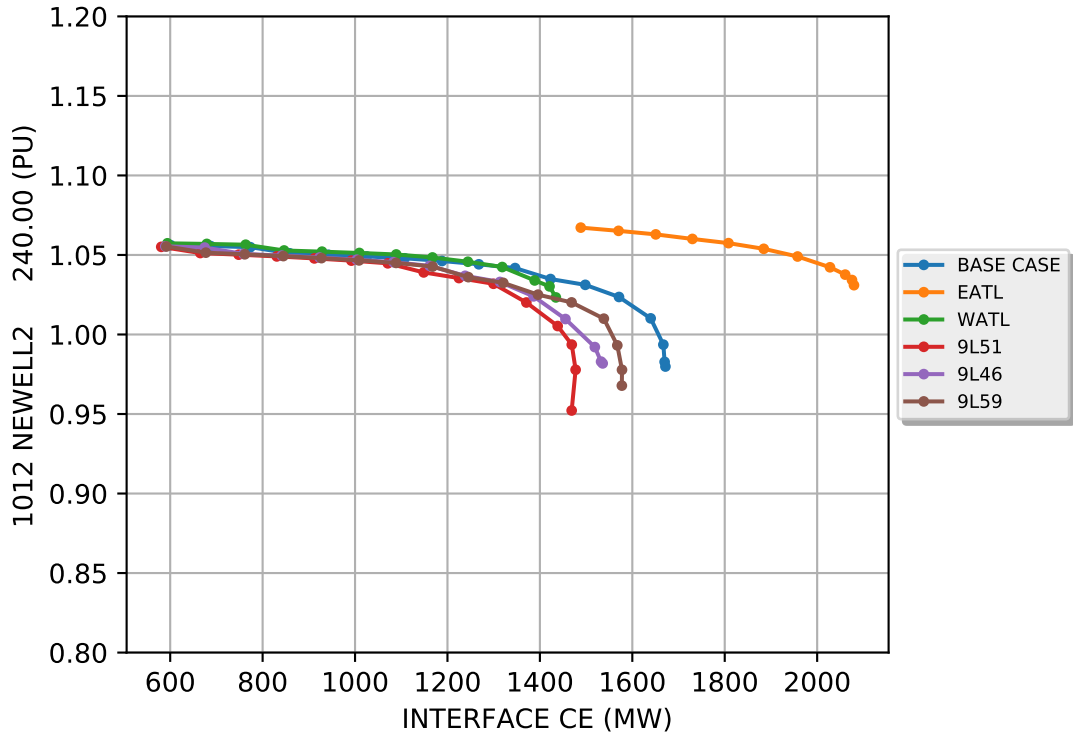


Figure: E-2-119

Case: H10, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 39.7%

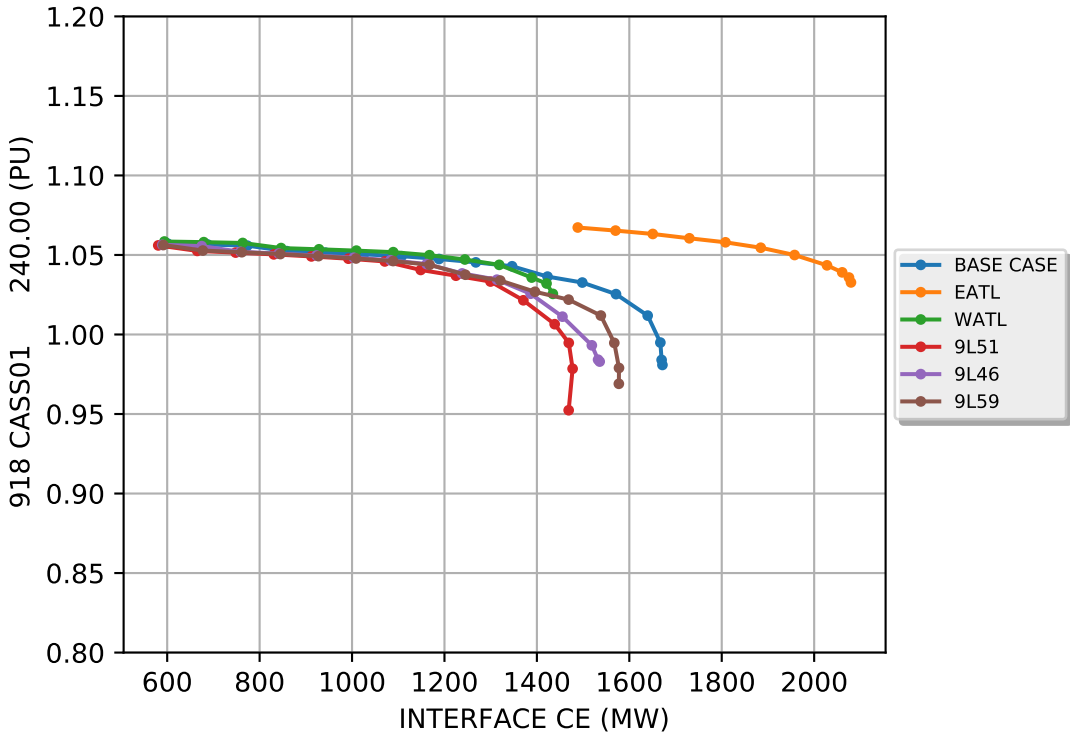


Figure: E-2-120

Case: H10, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 39.7%

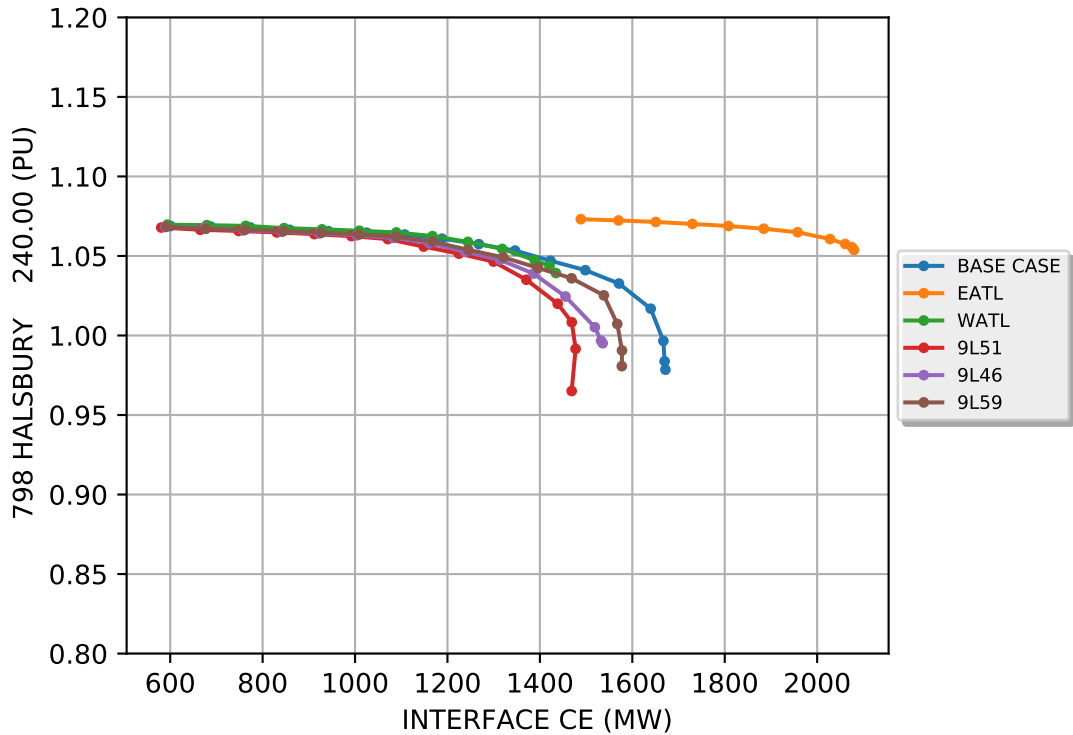


Figure: E-2-121

Case: H11, Option: BOTH

Min Voltage: 0.87 PU, Min Margin: 28.5%

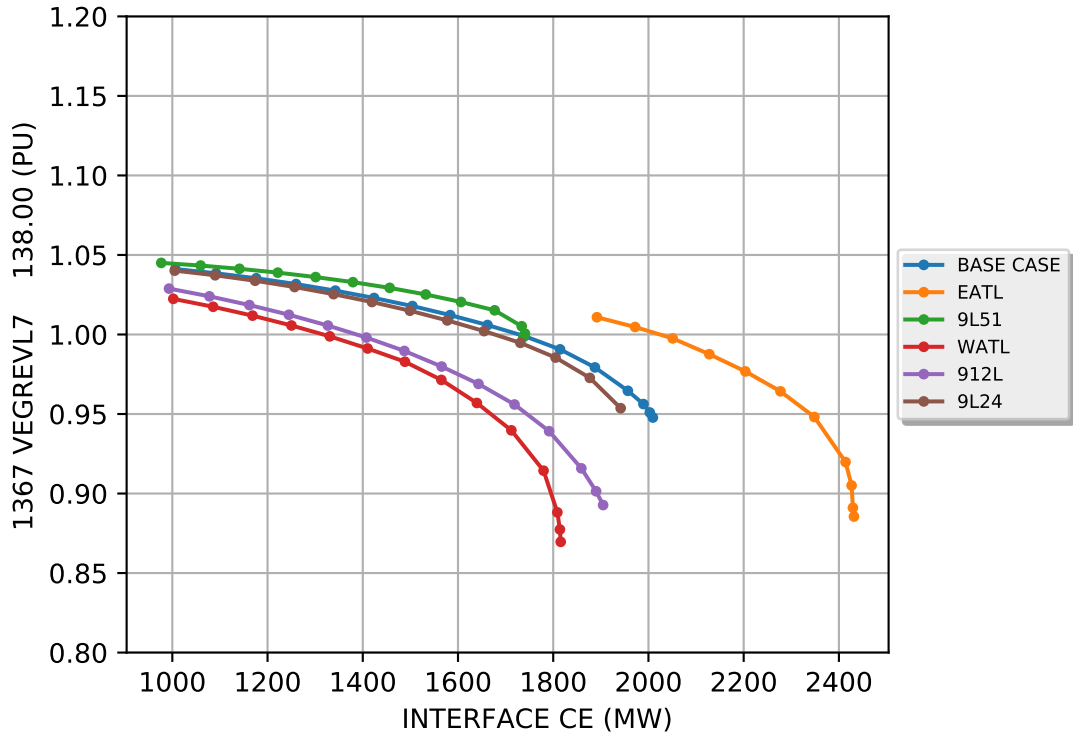


Figure: E-2-122

Case: H11, Option: BOTH

Min Voltage: 0.87 PU, Min Margin: 28.5%

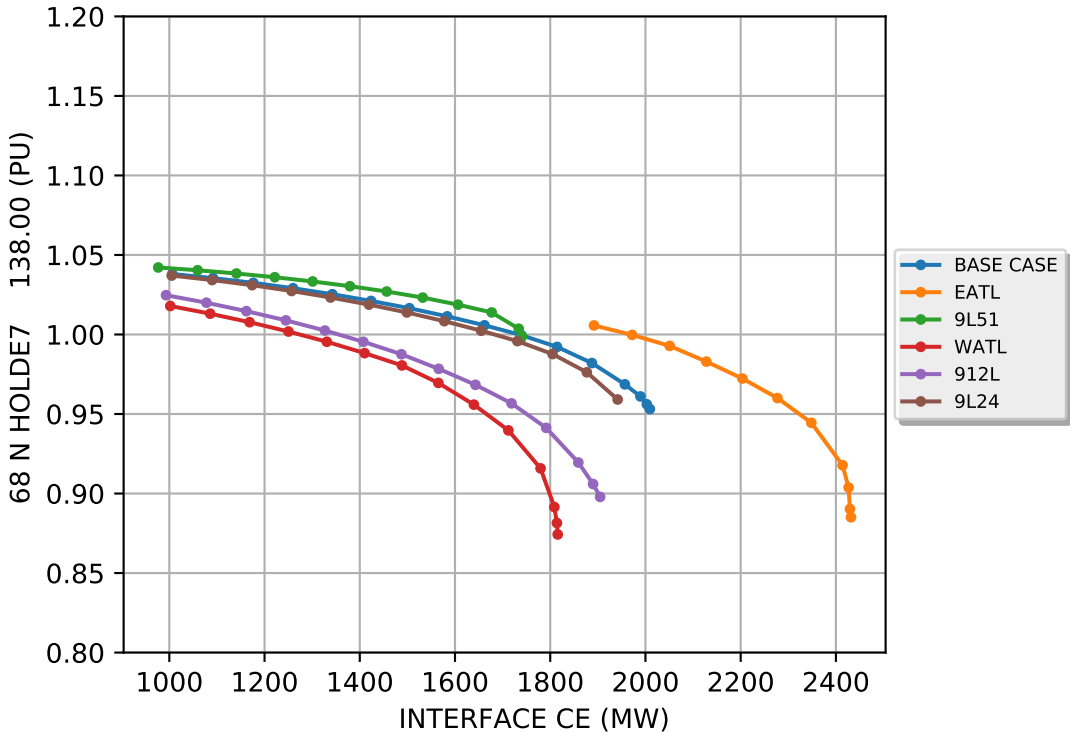


Figure: E-2-123

Case: H11, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 28.5%

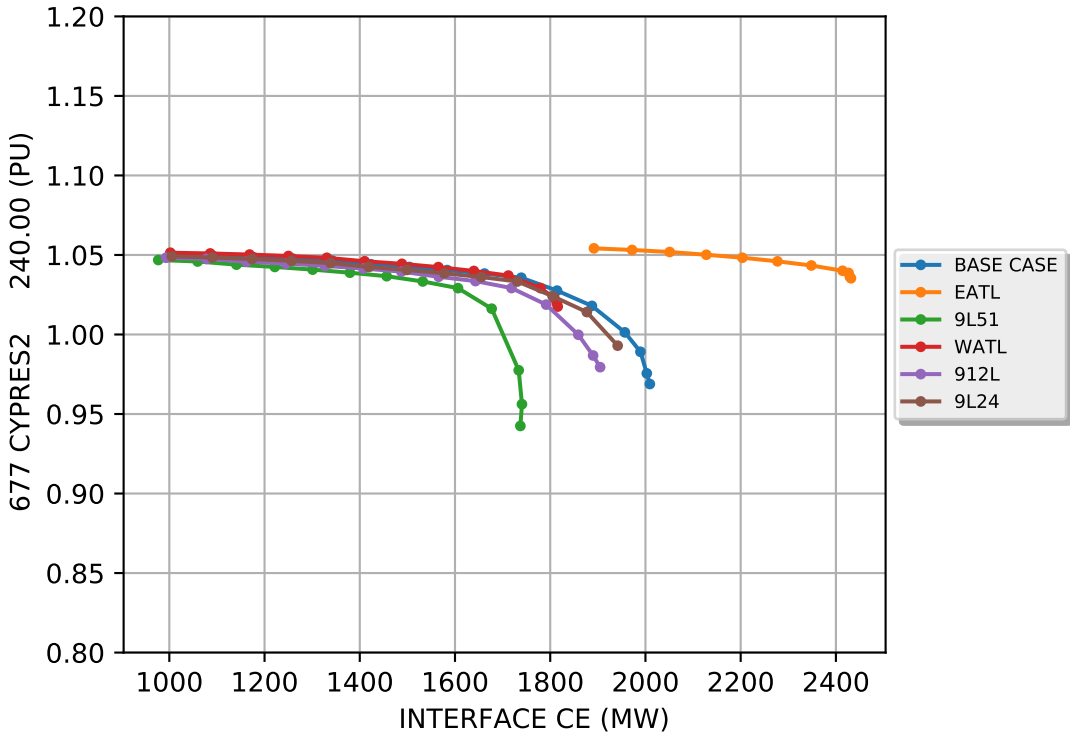


Figure: E-2-124

Case: H11, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 28.5%

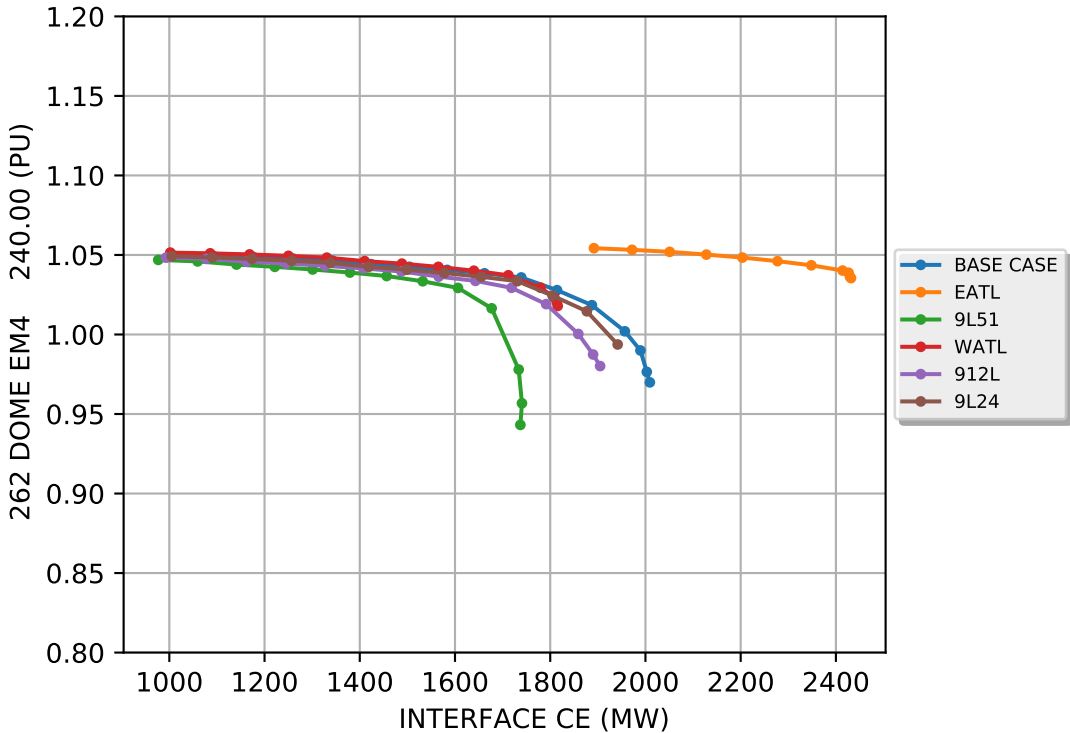


Figure: E-2-125

Case: H11, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 28.5%

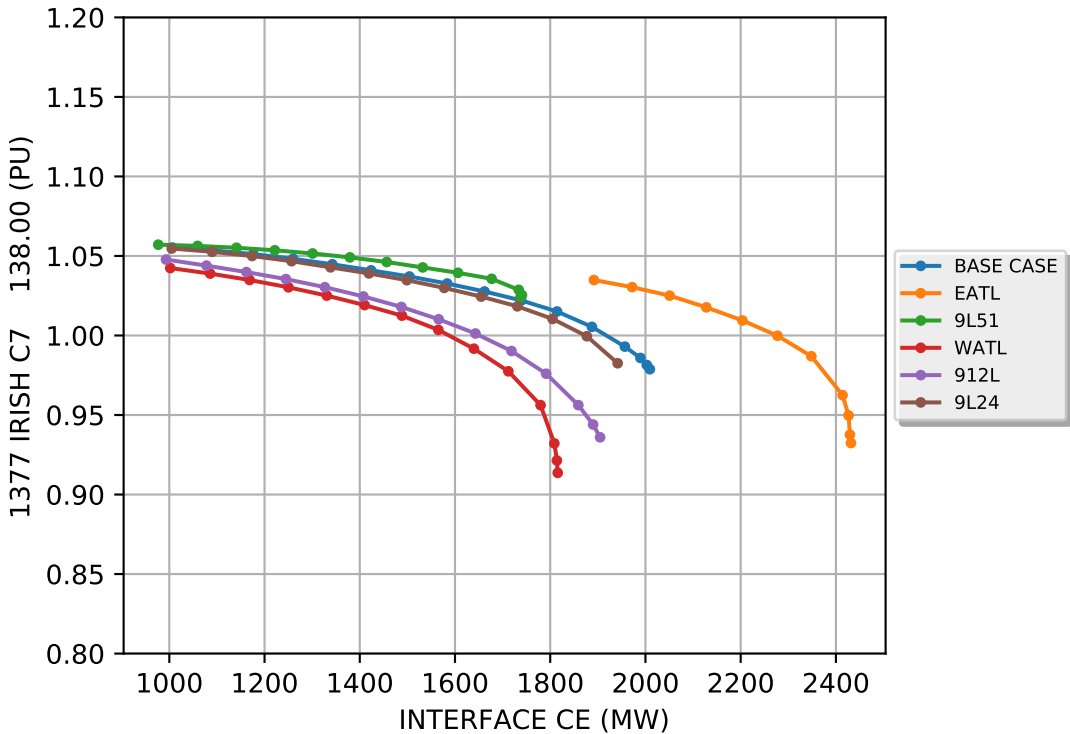


Figure: E-2-126

Case: H11, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 28.5%

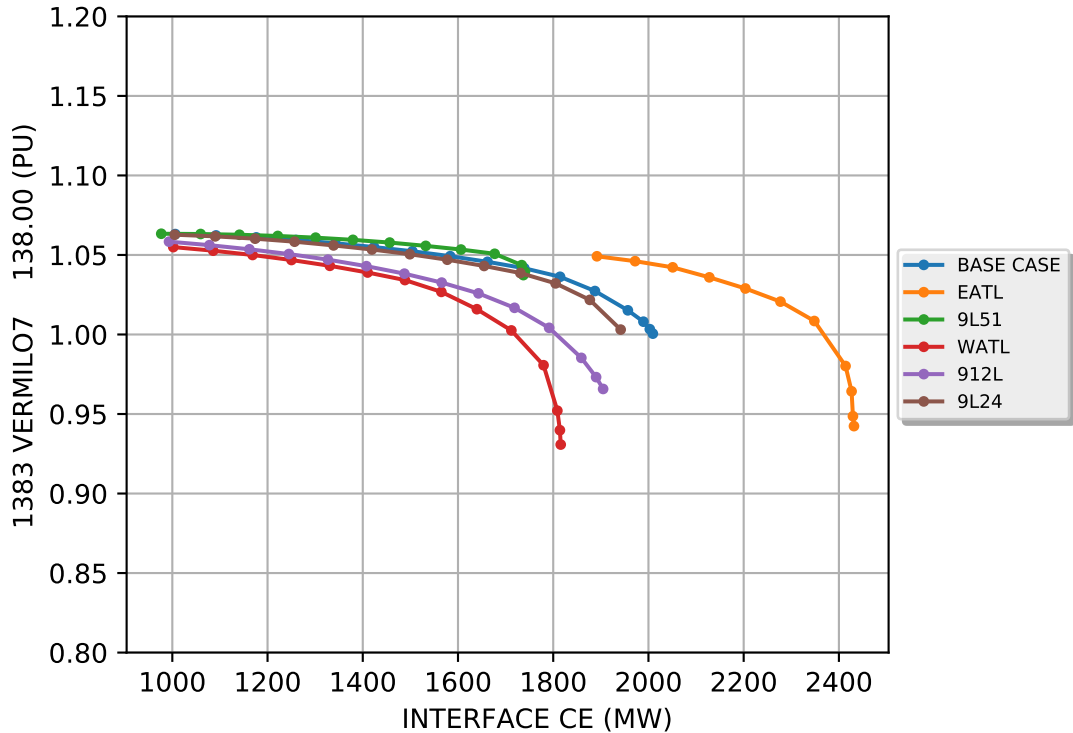


Figure: E-2-127

Case: H11, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 28.5%

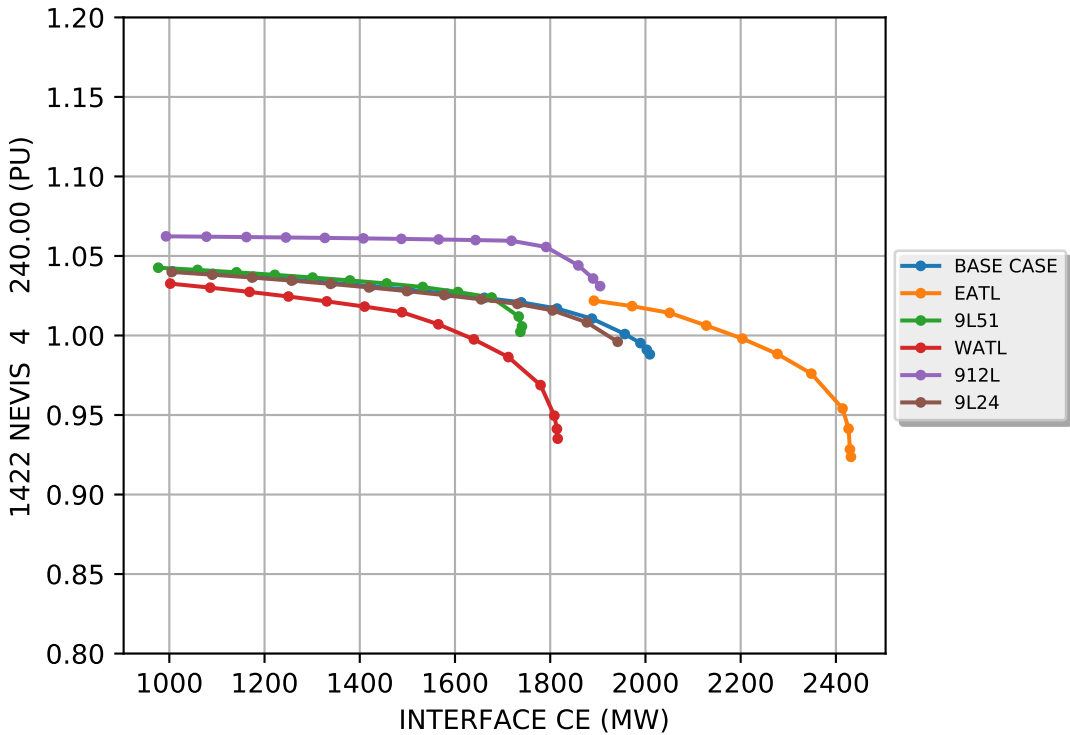


Figure: E-2-128

Case: H11, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 28.5%

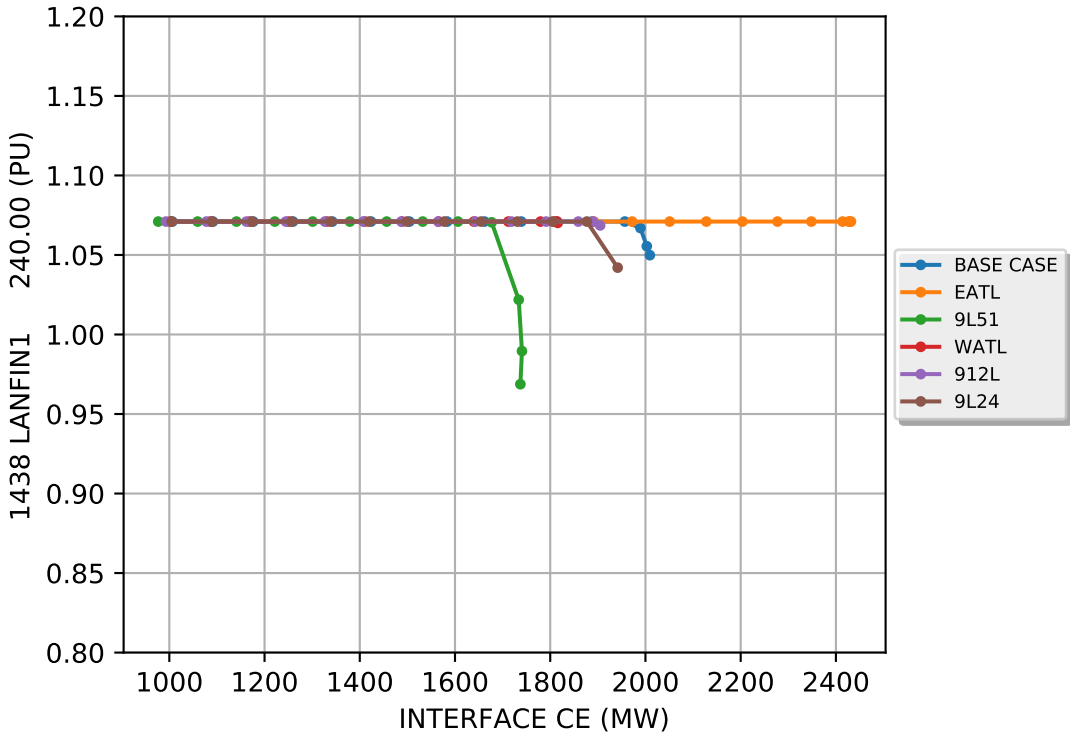


Figure: E-2-129

Case: H11, Option: BOTH

Min Voltage: 0.98 PU, Min Margin: 28.5%

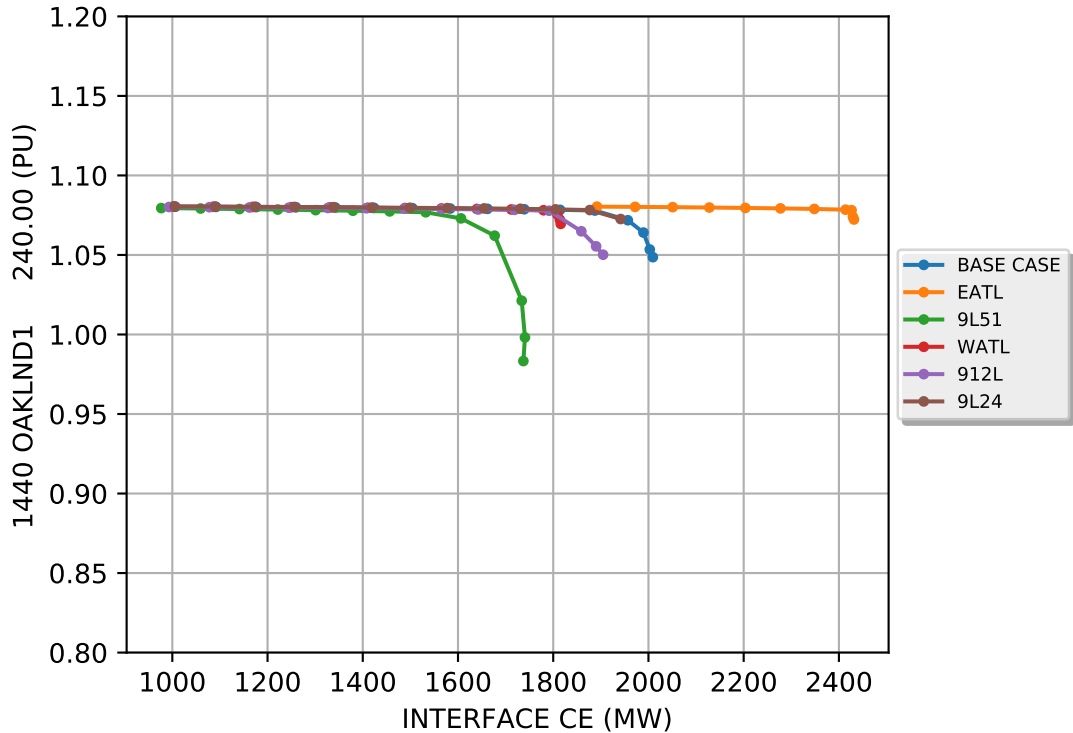


Figure: E-2-130

Case: H11, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 28.5%

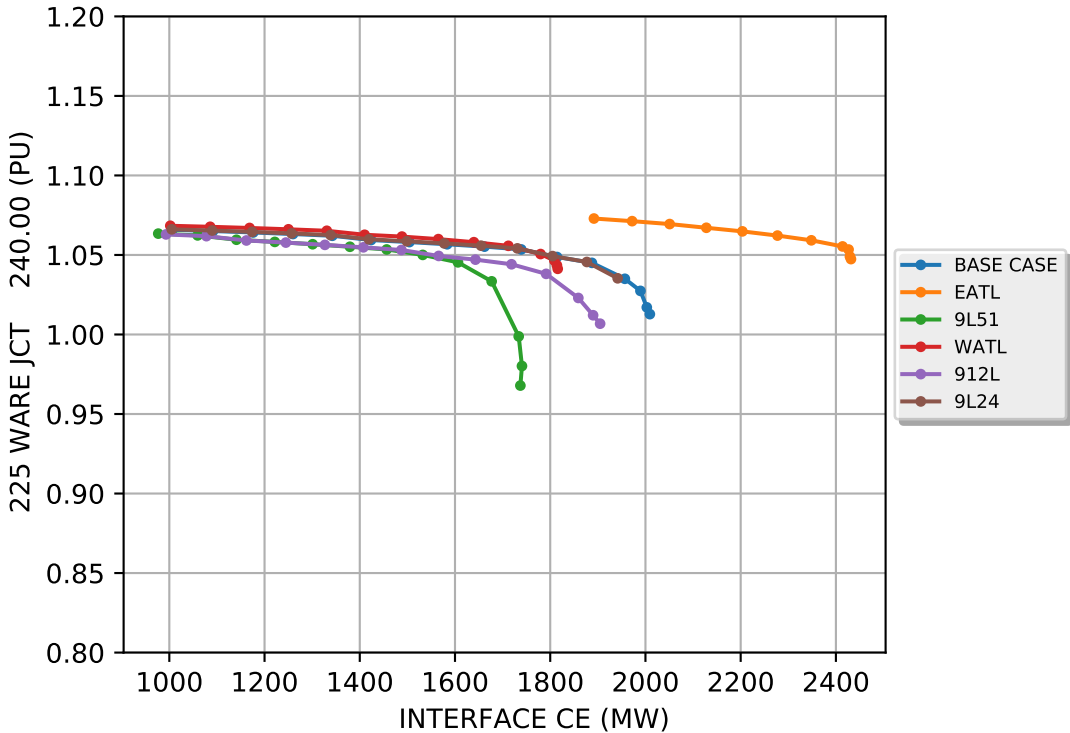


Figure: E-2-131

Case: H11, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 28.5%

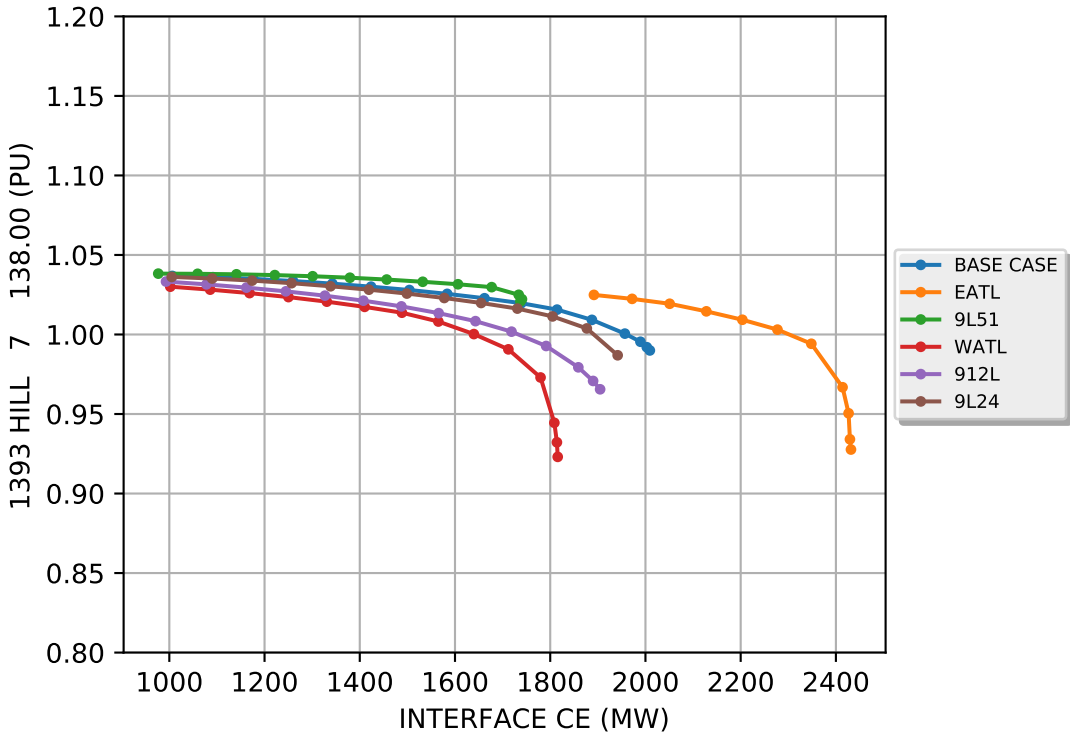


Figure: E-2-132

Case: M8, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 30.5%

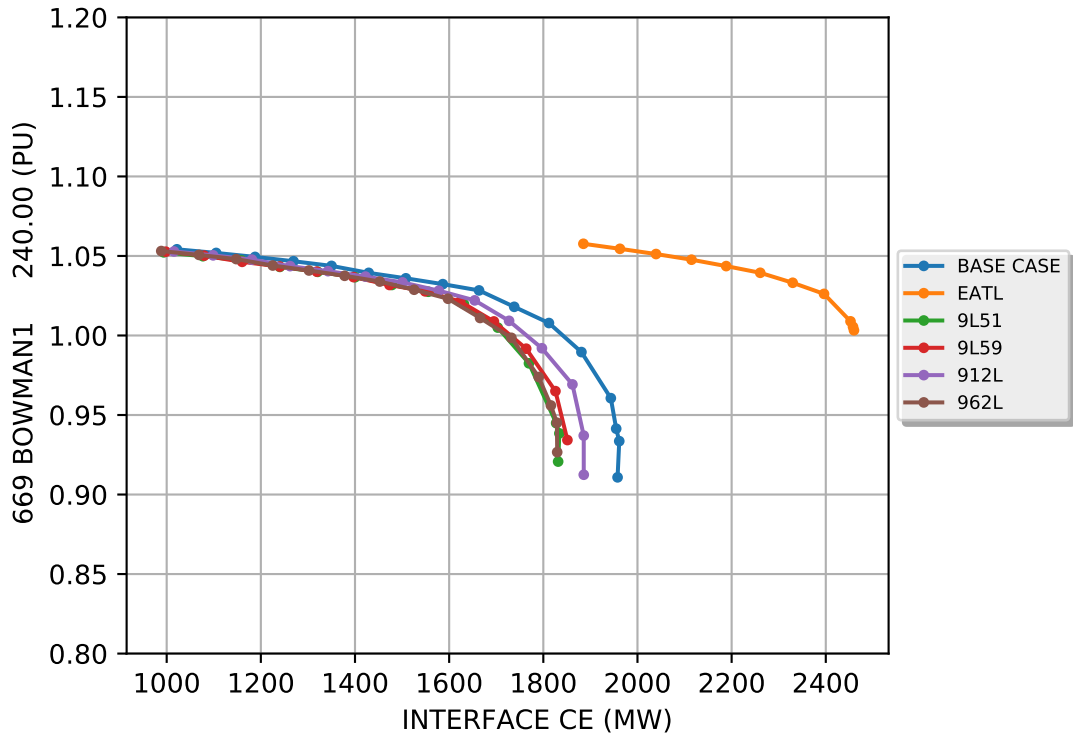


Figure: E-2-133

Case: M8, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 30.5%

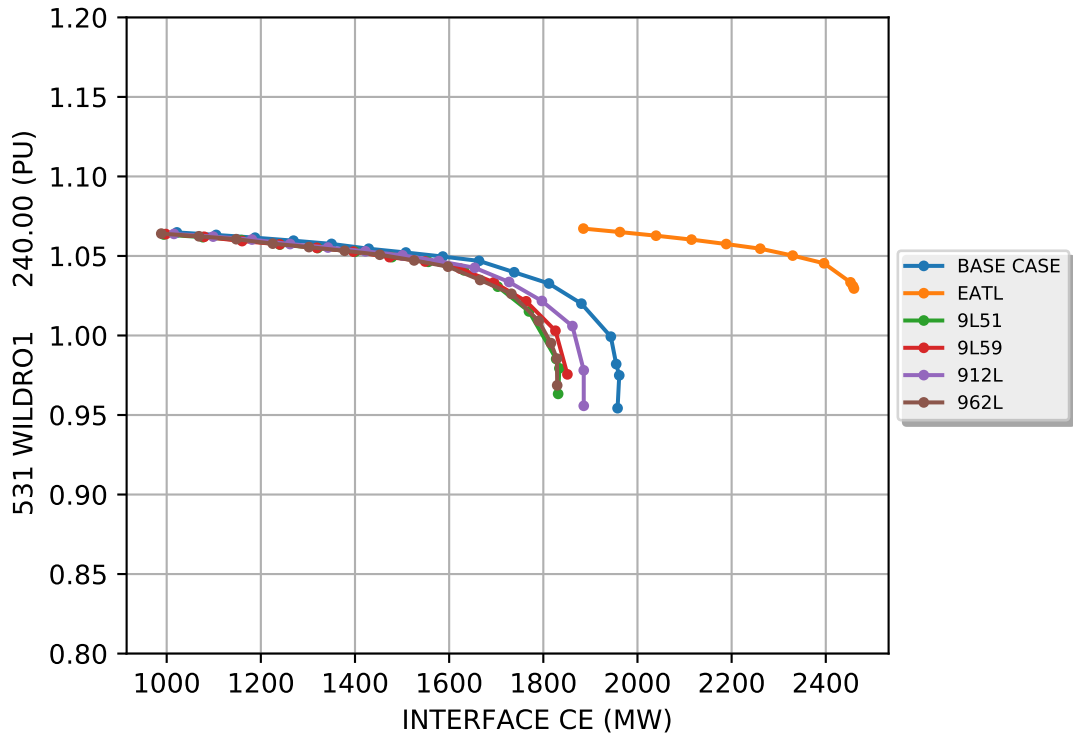


Figure: E-2-134

Case: M8, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 30.5%

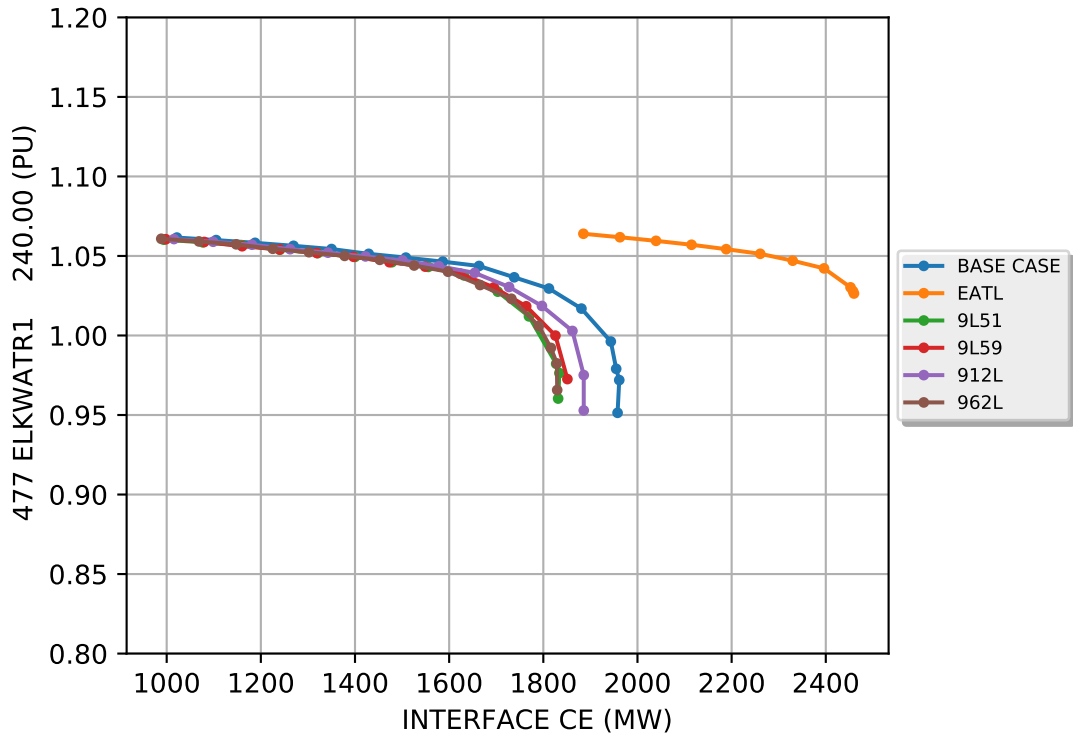


Figure: E-2-135

Case: M8, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 30.5%

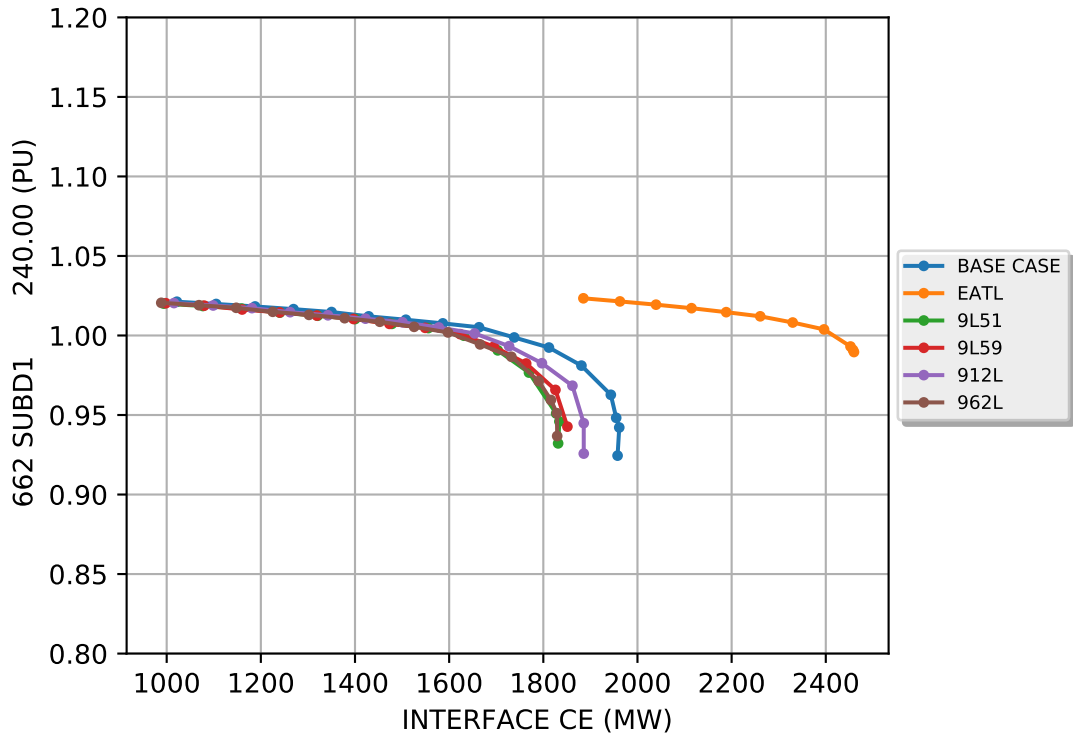


Figure: E-2-136

Case: M8, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 30.5%

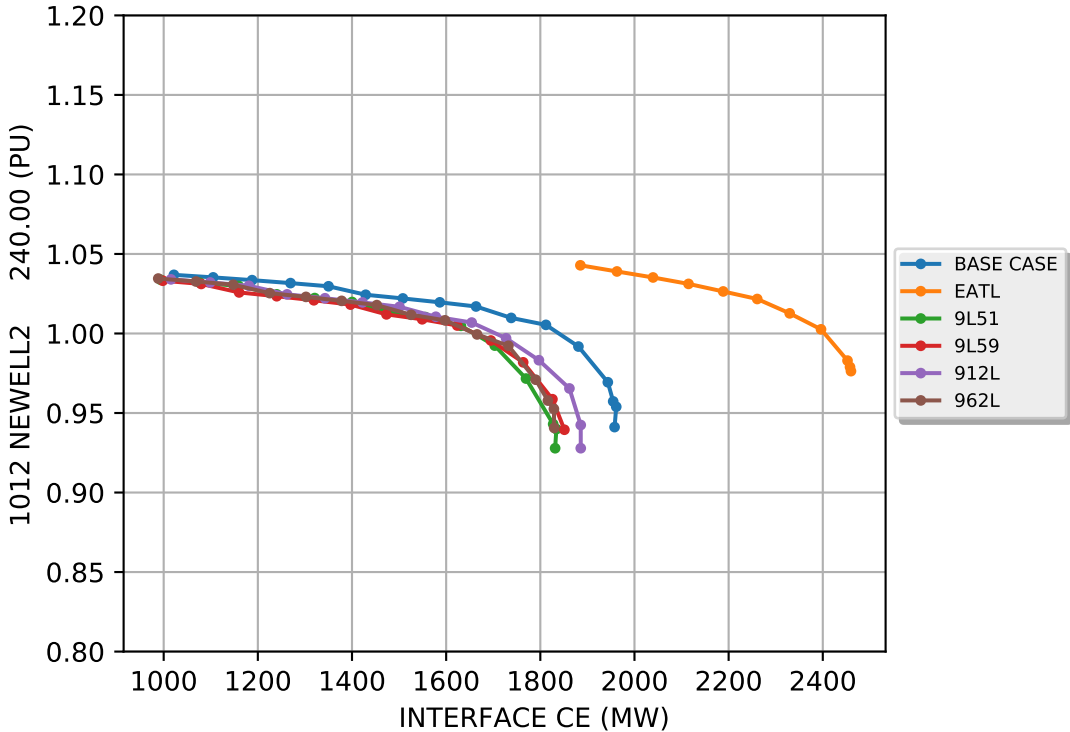


Figure: E-2-137

Case: M8, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 30.5%

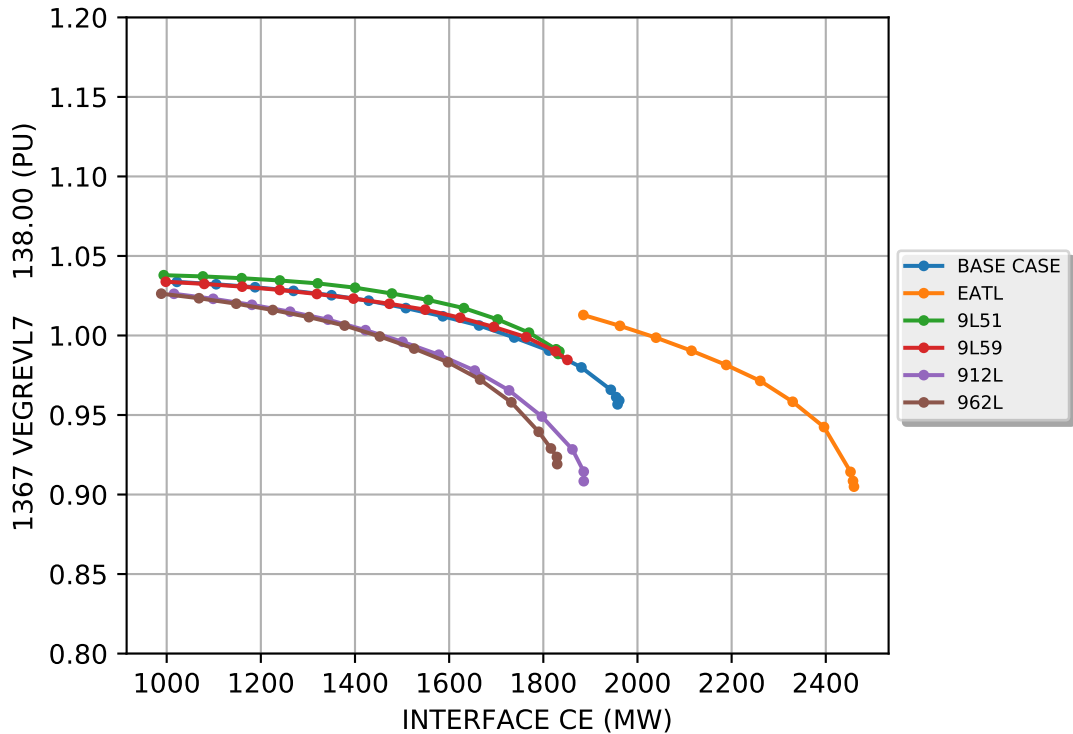


Figure: E-2-138

Case: M8, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 30.5%

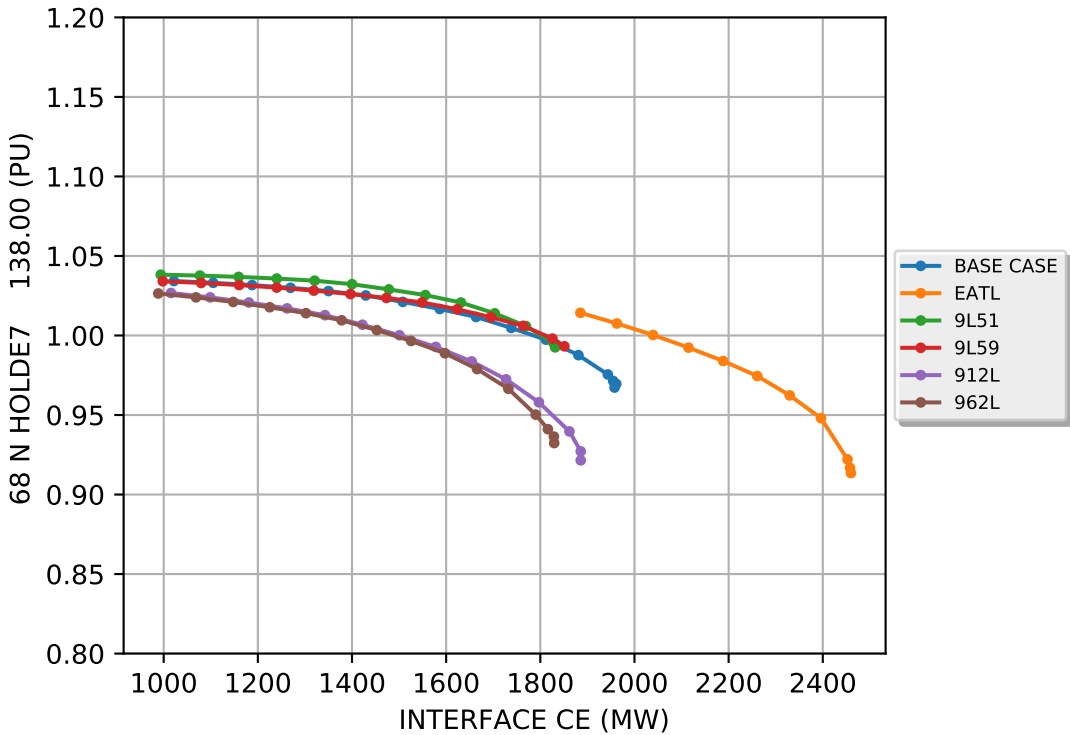


Figure: E-2-139

Case: M8, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 30.5%

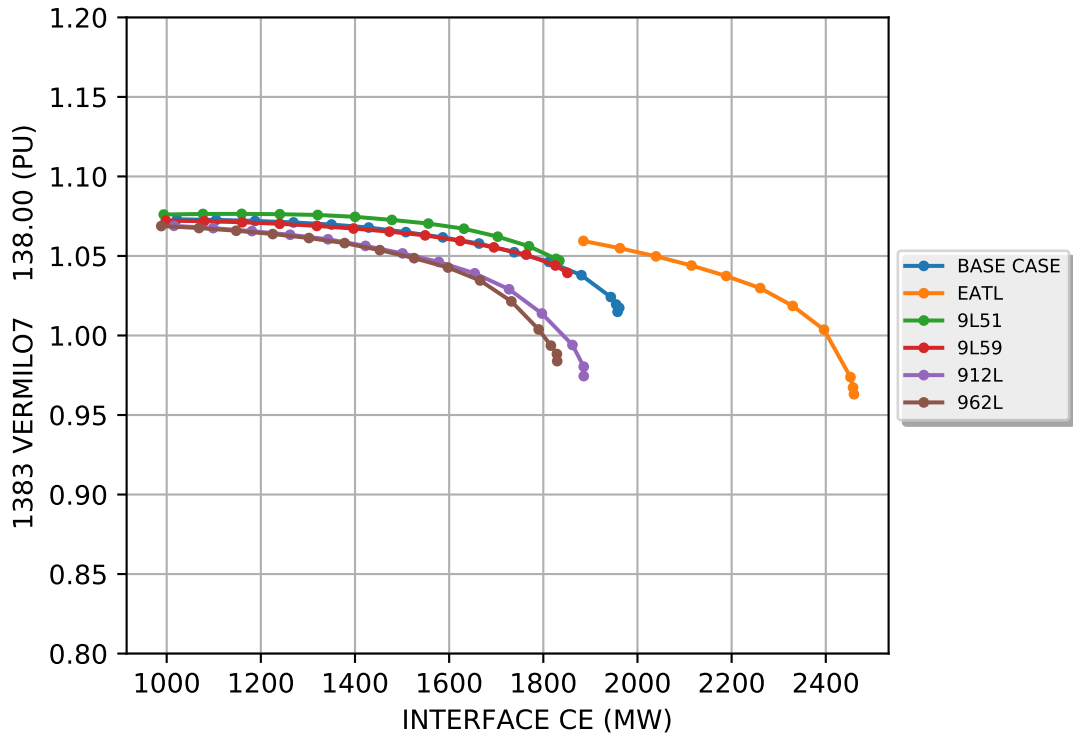


Figure: E-2-140

Case: M8, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 30.5%

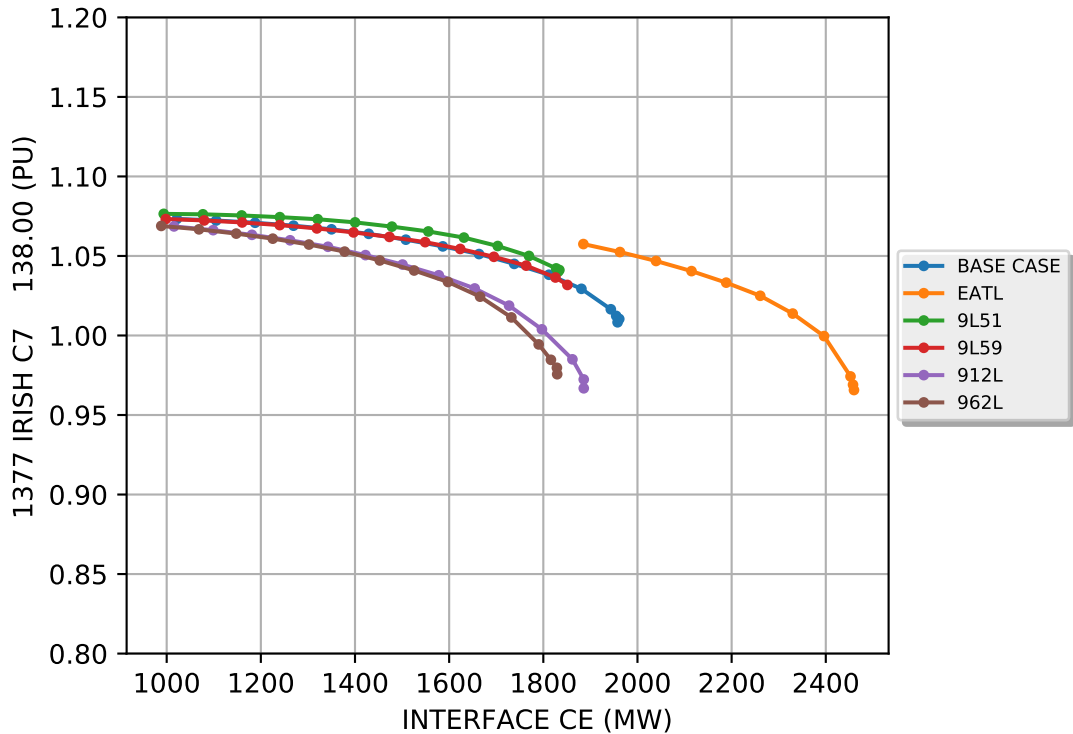


Figure: E-2-141

Case: M8, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 30.5%

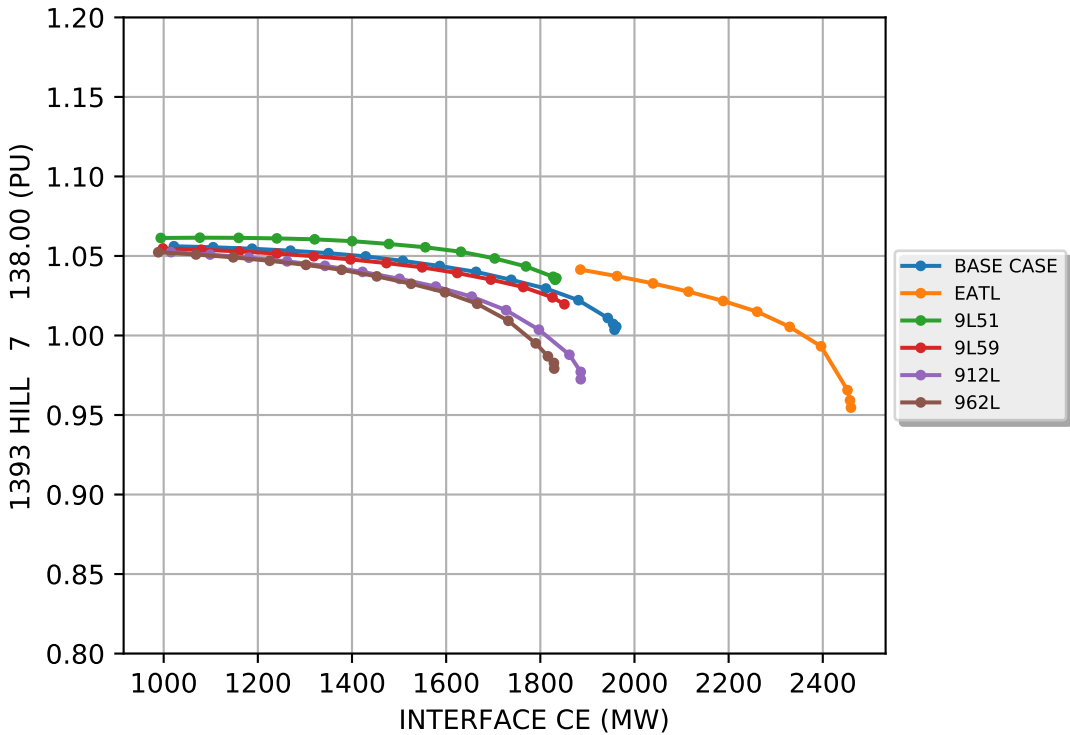


Figure: E-2-142

Case: M8, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 30.5%

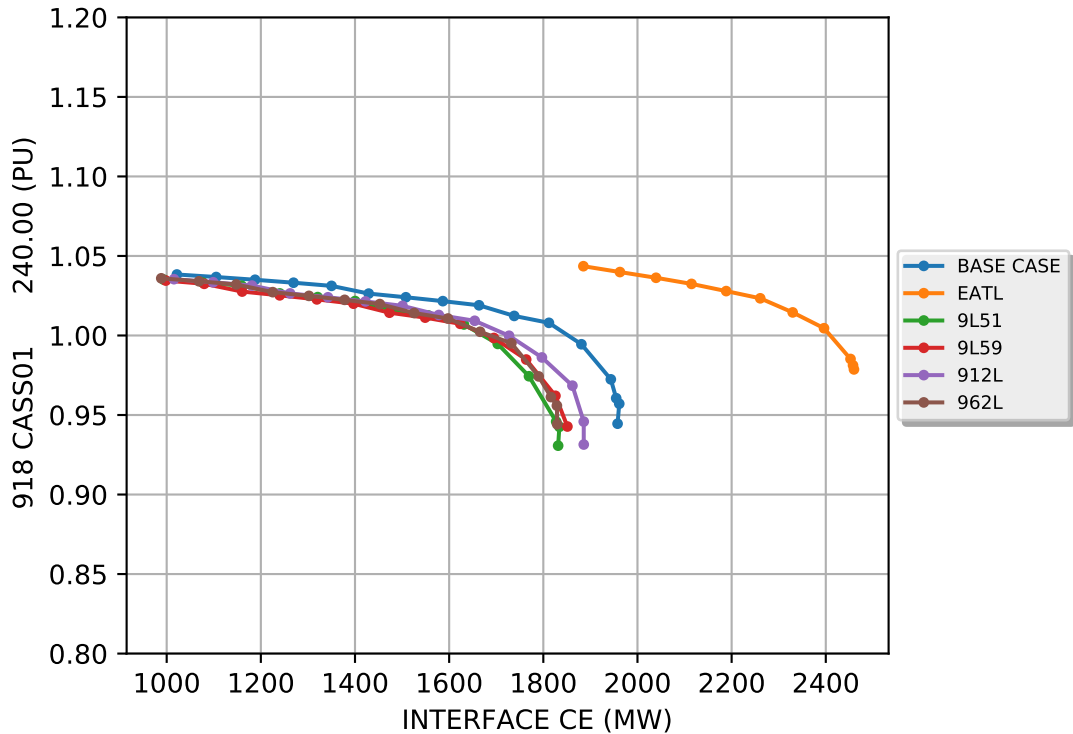


Figure: E-2-143

Case: M8, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 30.5%

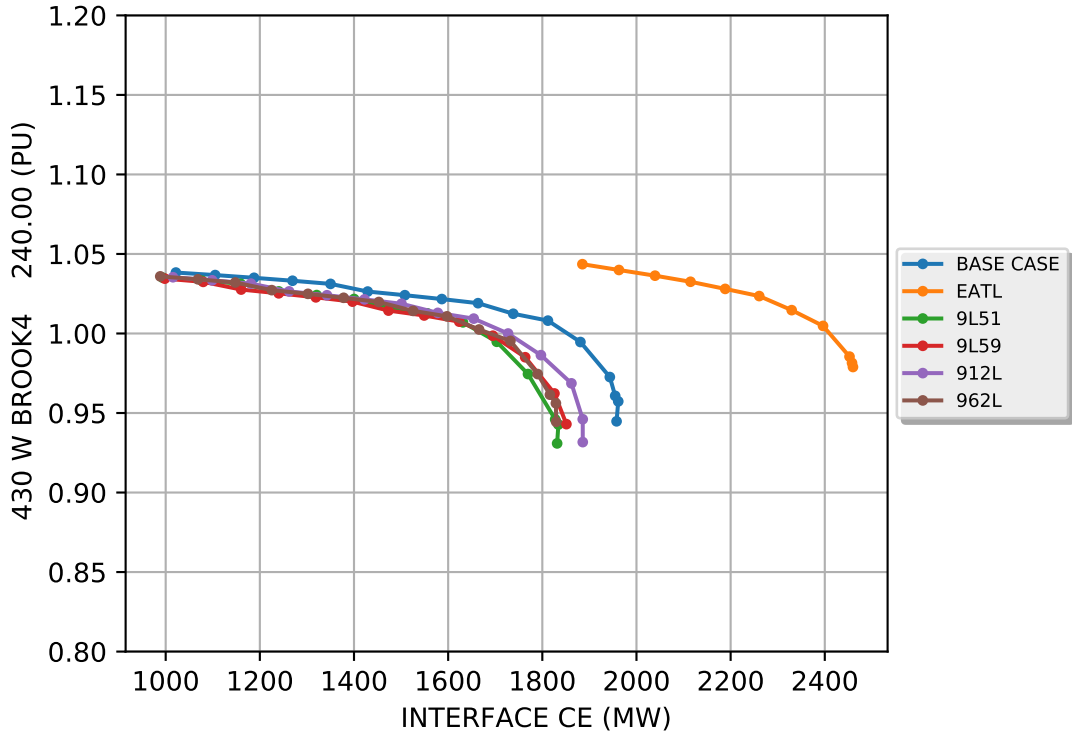


Figure: E-2-144

Case: M7, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 58.5%

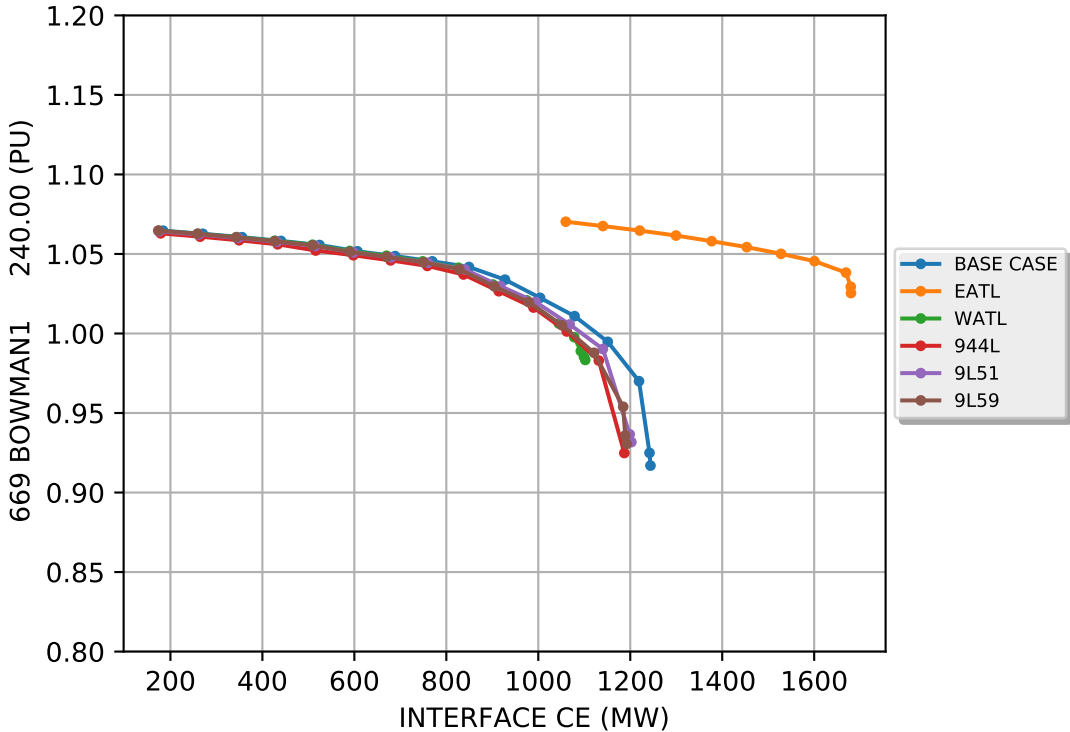


Figure: E-2-145

Case: M7, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 58.5%

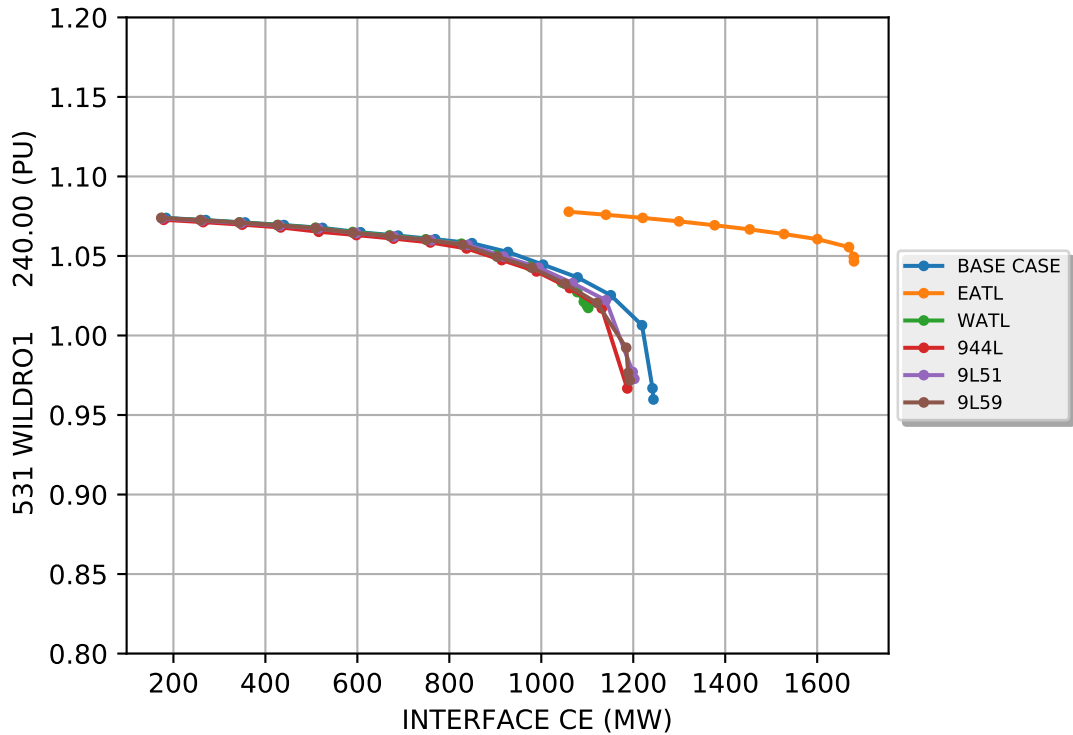


Figure: E-2-146

Case: M7, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 58.5%

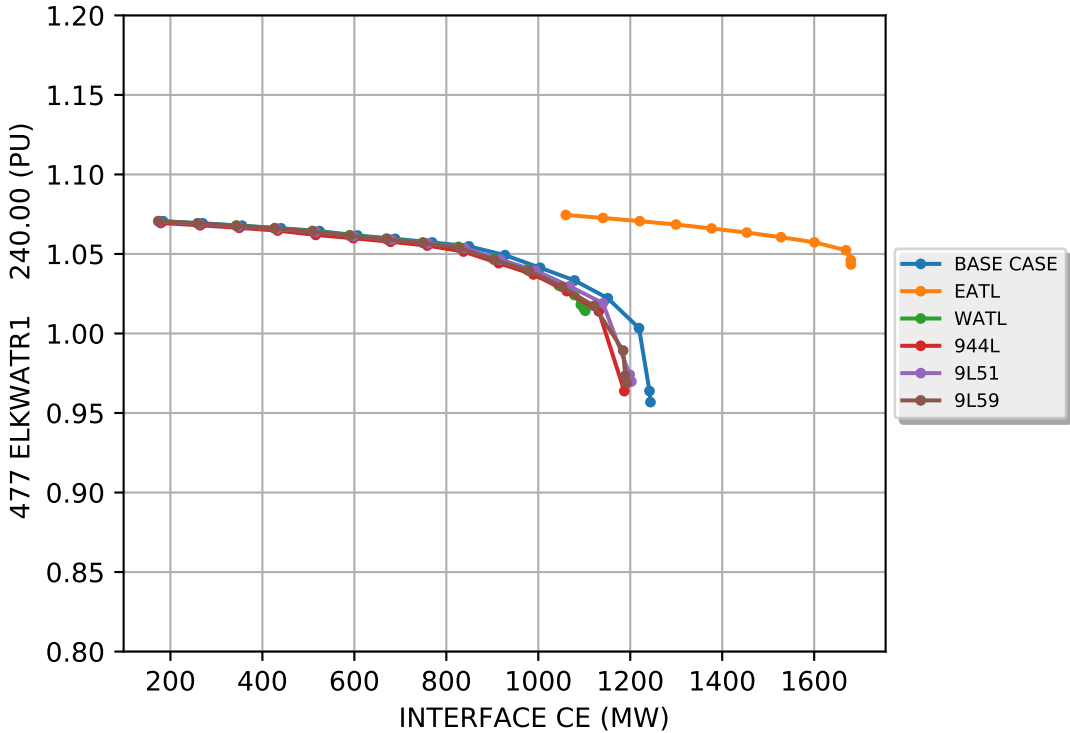


Figure: E-2-147

Case: M7, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 58.5%

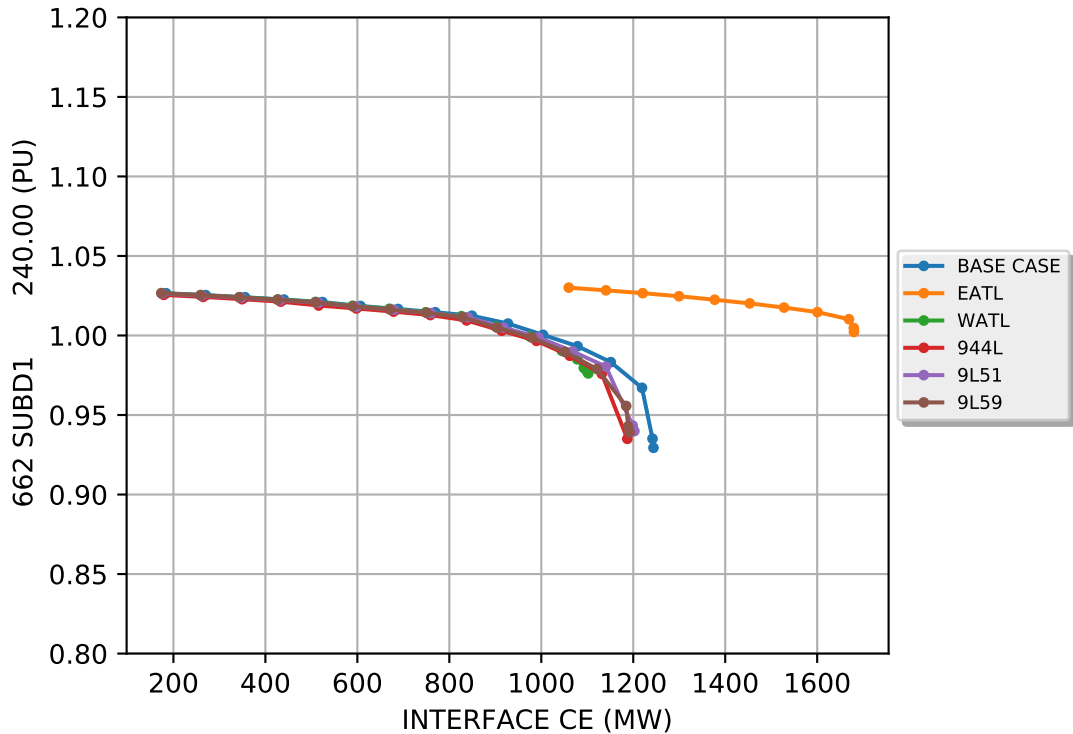


Figure: E-2-148

Case: M7, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 58.5%

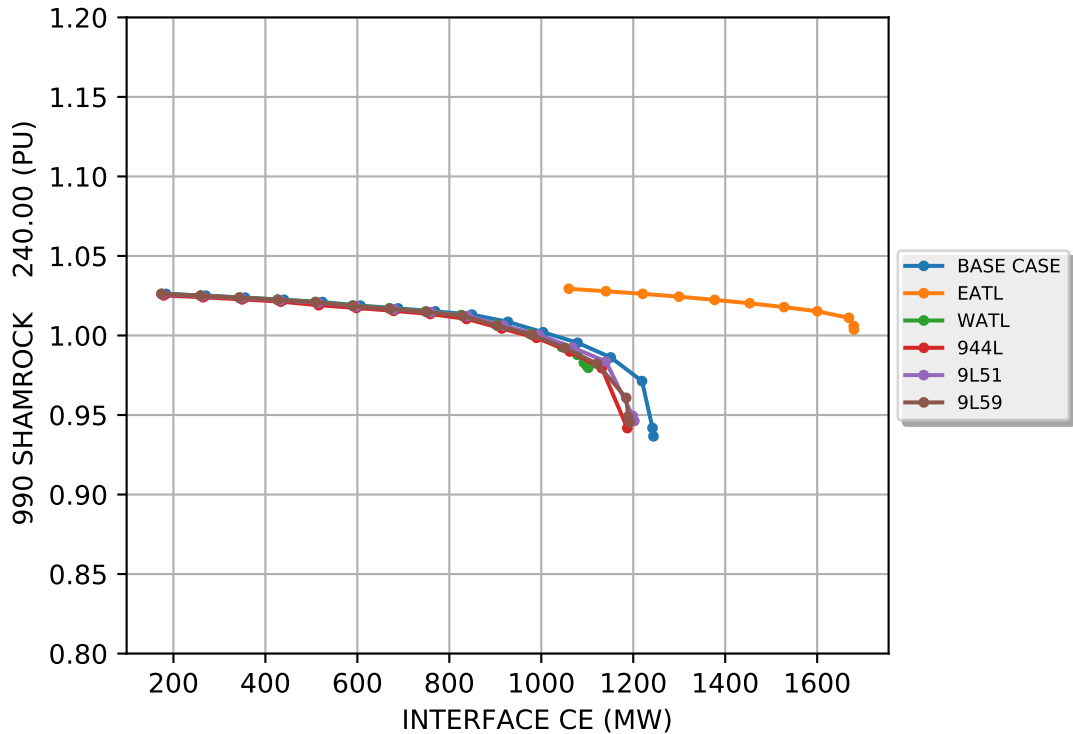


Figure: E-2-149

Case: M7, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 58.5%

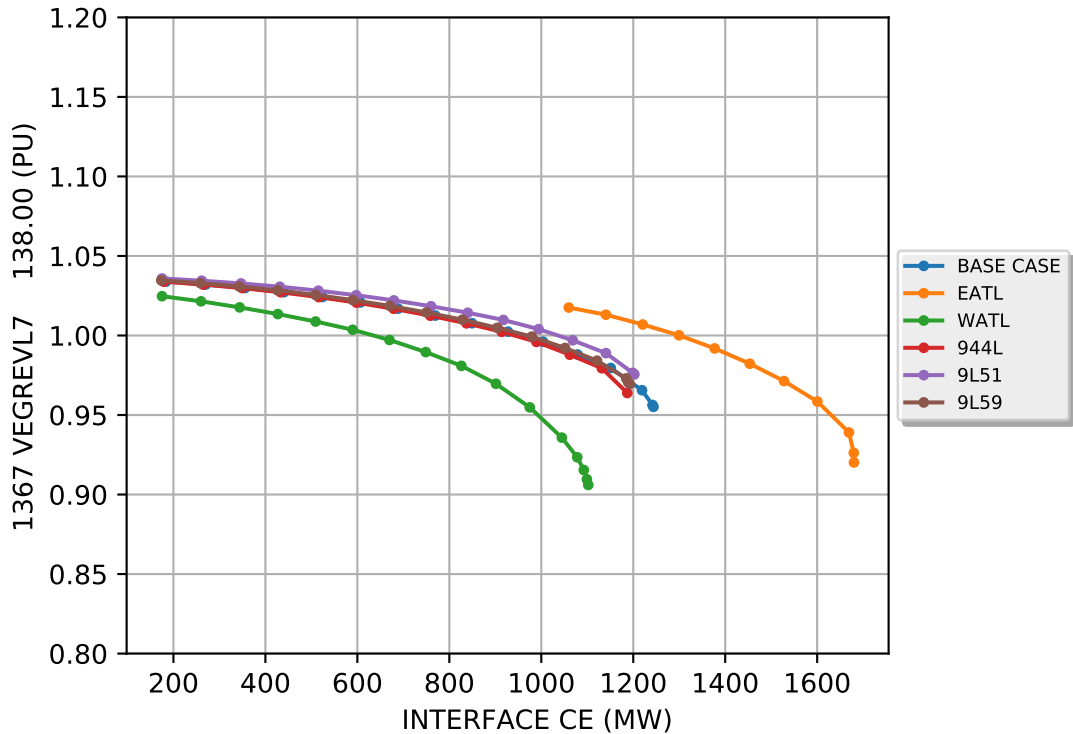


Figure: E-2-150

Case: M7, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 58.5%

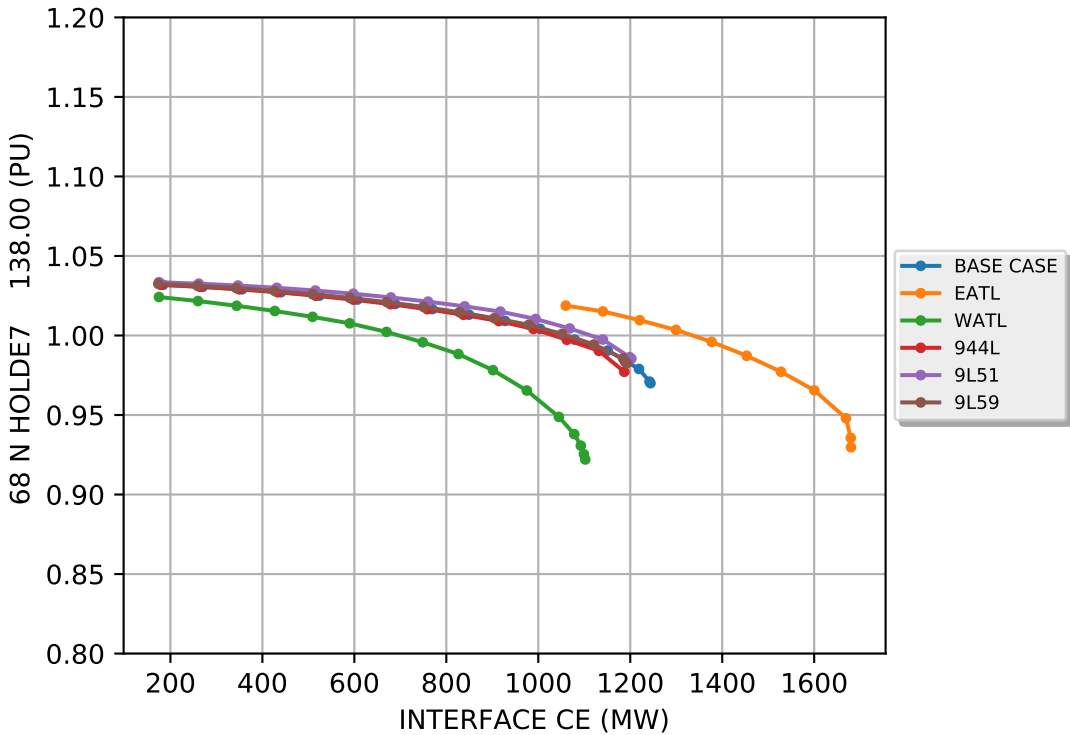


Figure: E-2-151

Case: M7, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 58.5%

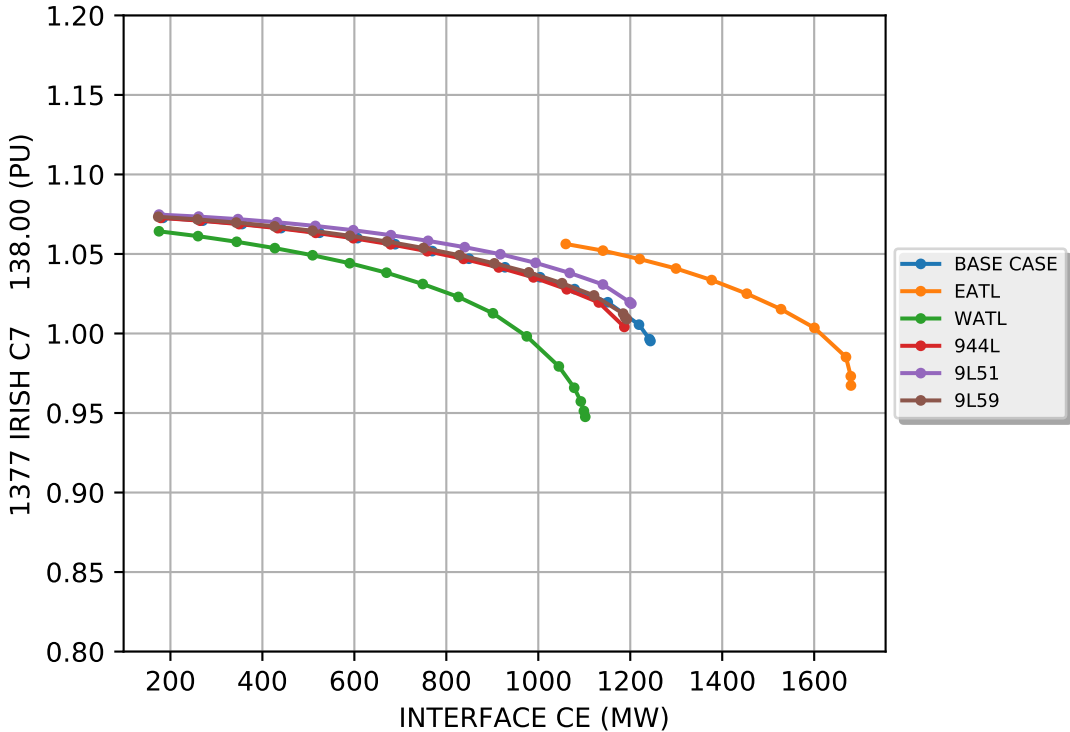


Figure: E-2-152

Case: M7, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 58.5%

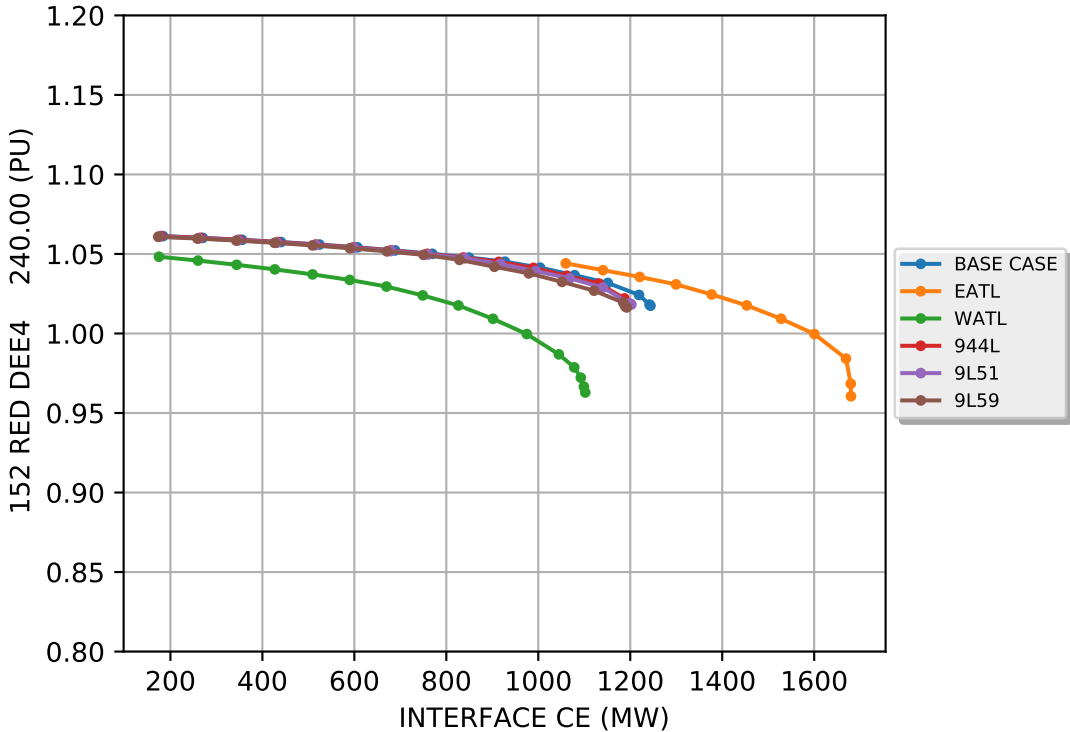


Figure: E-2-153

Case: M7, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 58.5%

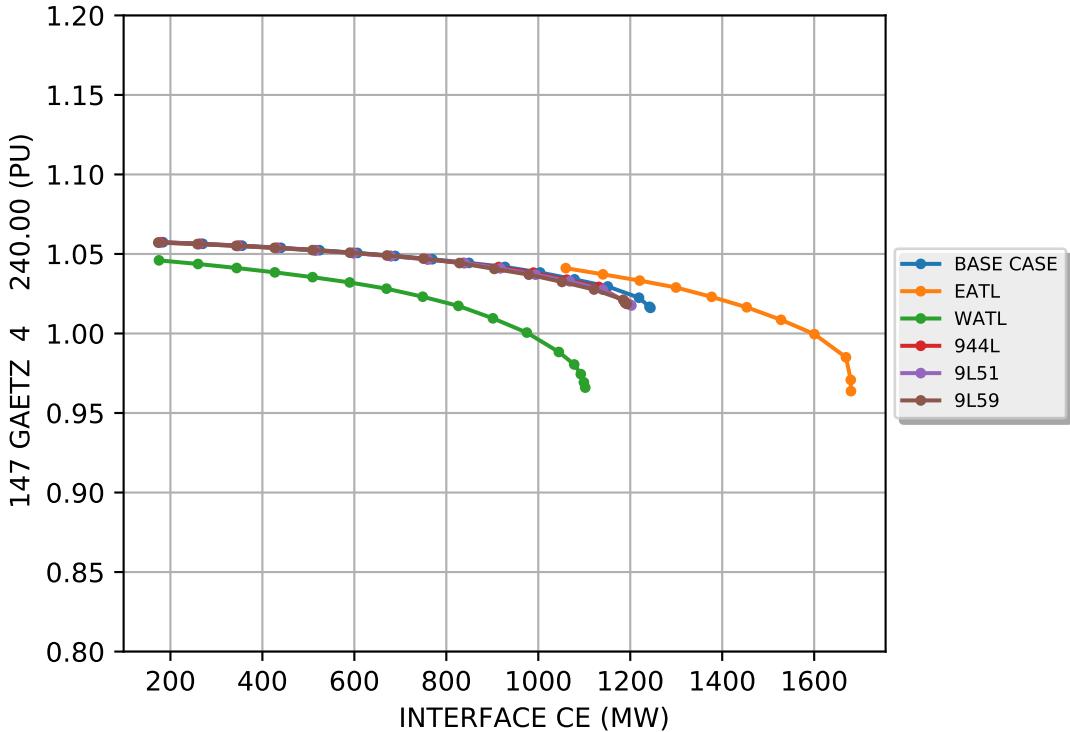


Figure: E-2-154

Case: M7, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 58.5%

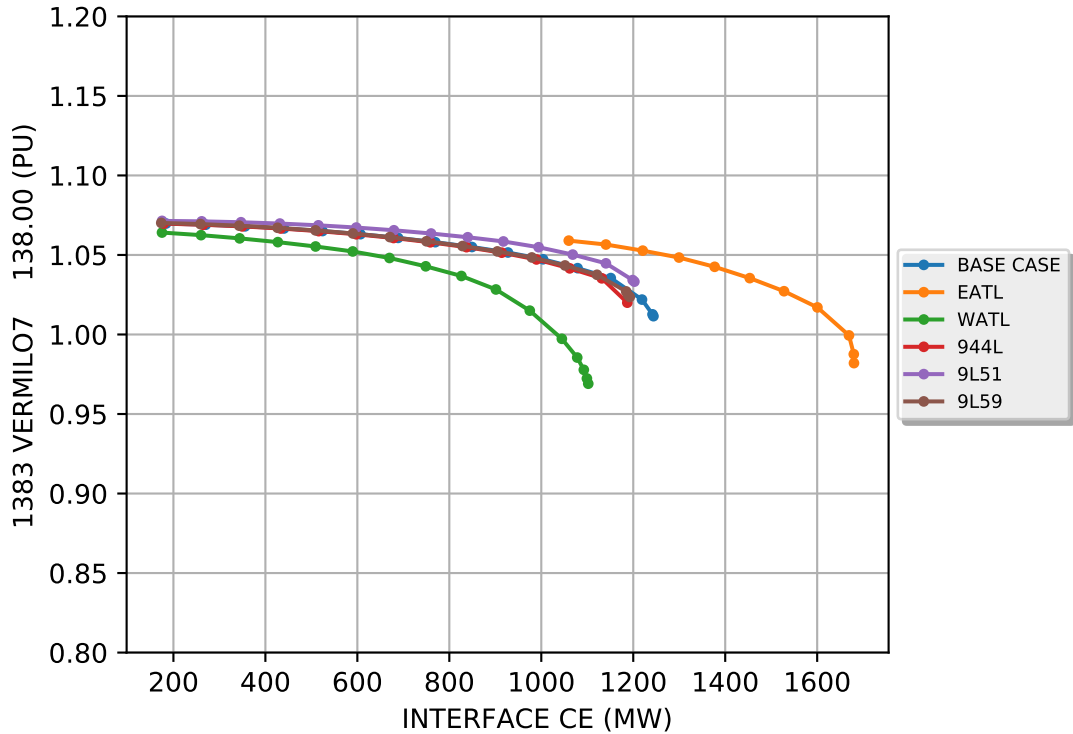


Figure: E-2-155

Case: M7, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 58.5%

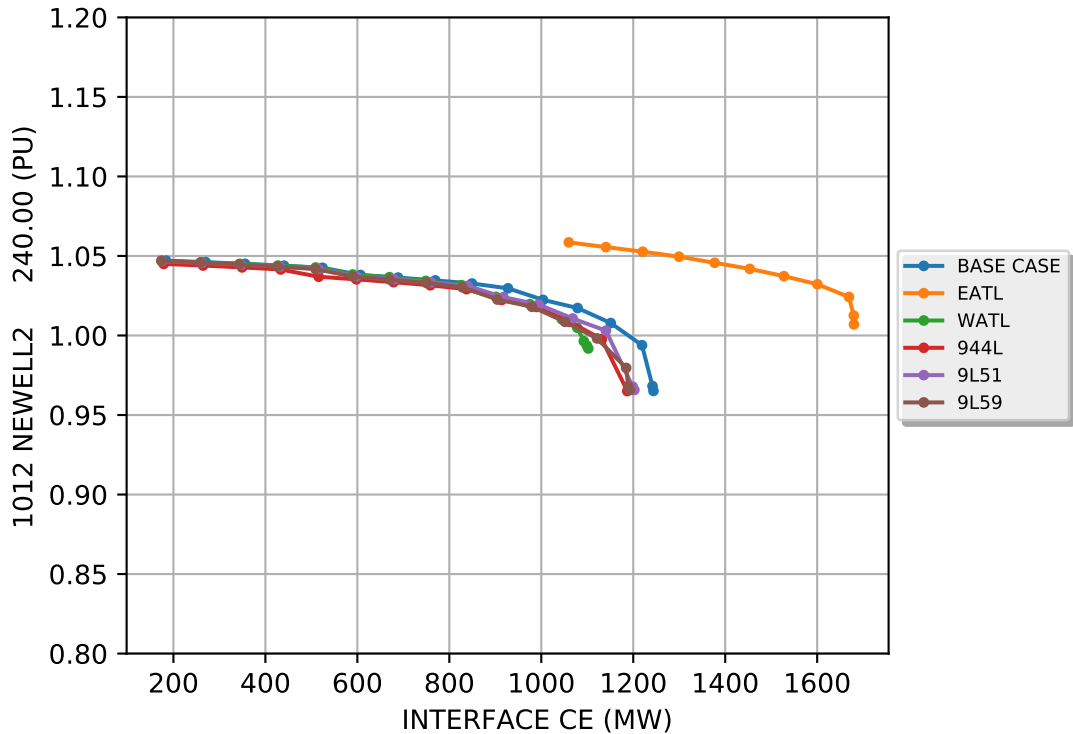


Figure: E-2-156

Case: M6, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 51.8%

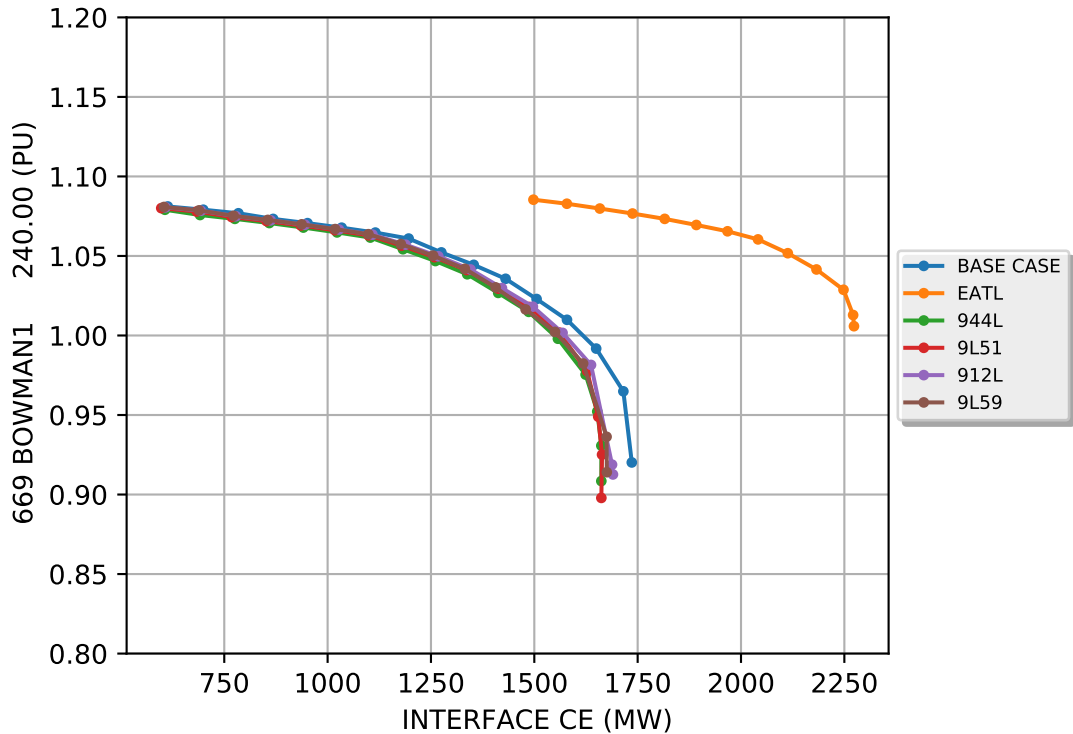


Figure: E-2-157

Case: M6, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 51.8%

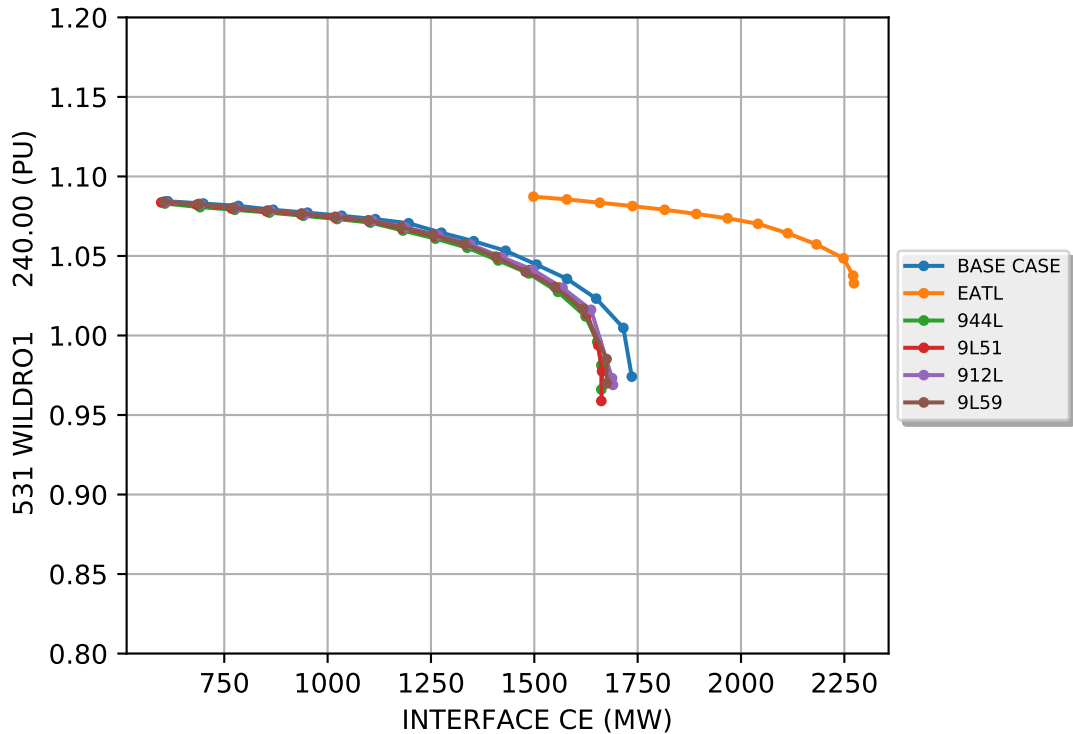


Figure: E-2-158

Case: M6, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 51.8%

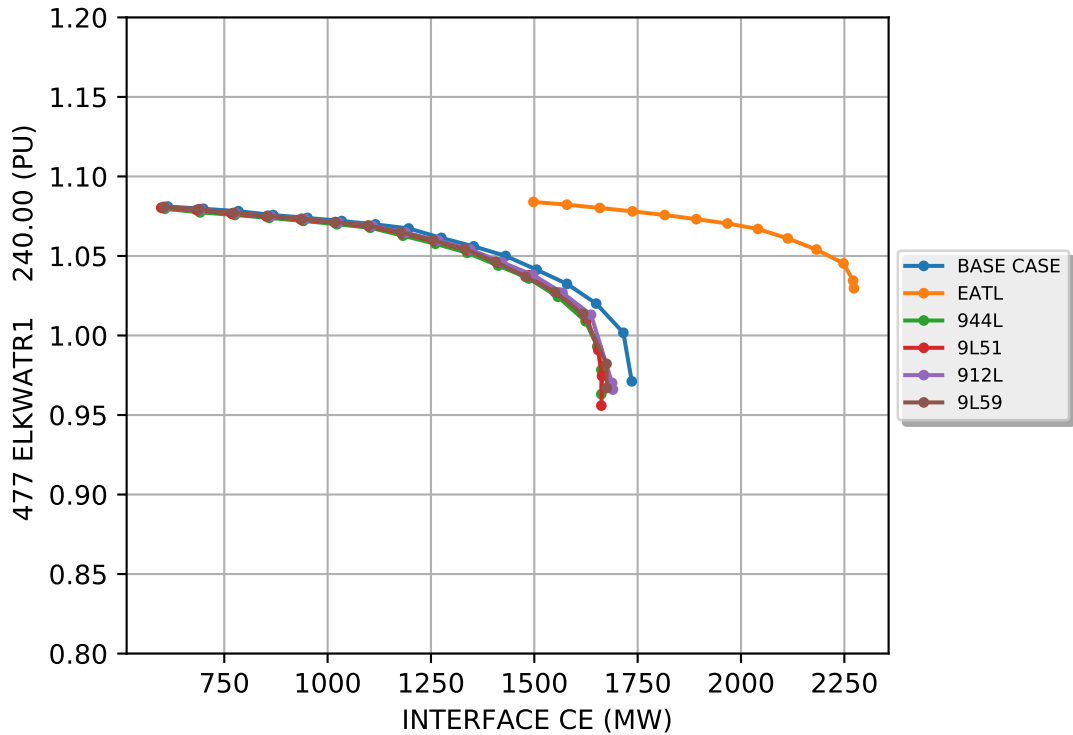


Figure: E-2-159

Case: M6, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 51.8%

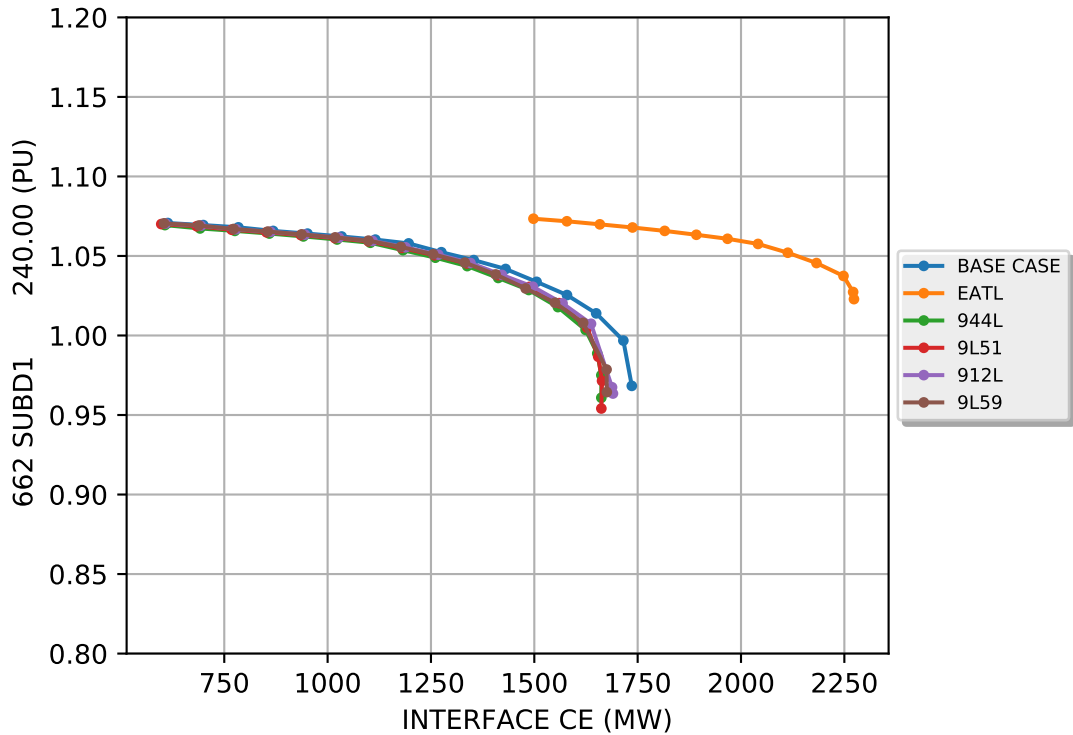


Figure: E-2-160

Case: M6, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 51.8%

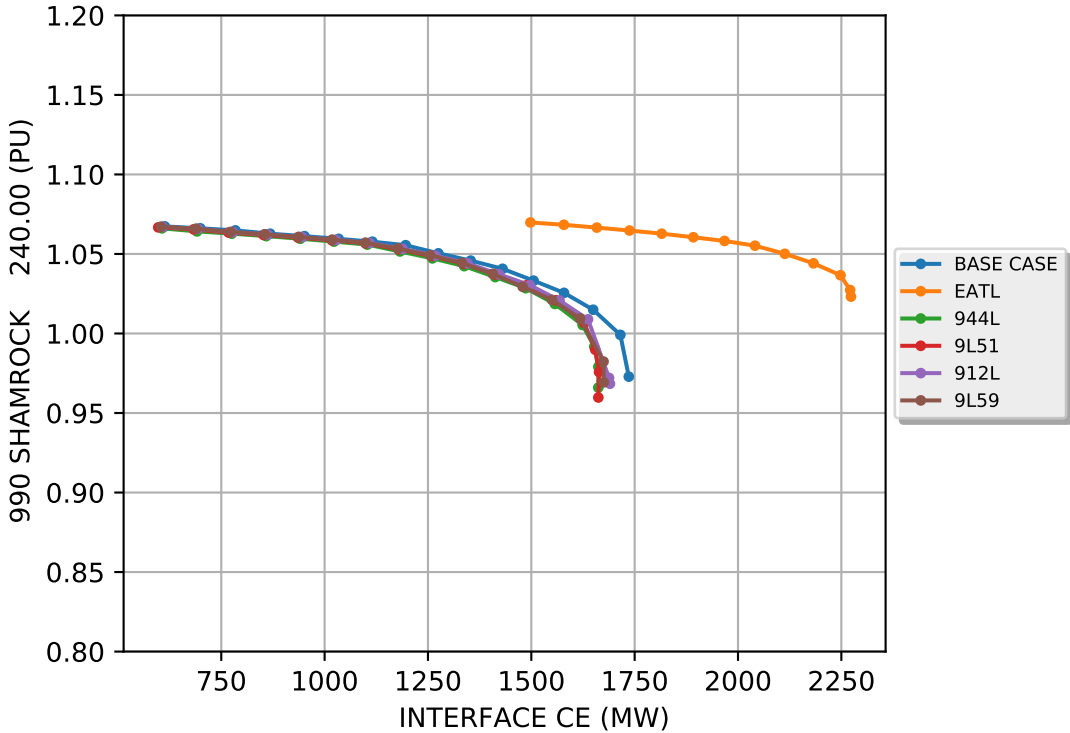


Figure: E-2-161

Case: M6, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 51.8%

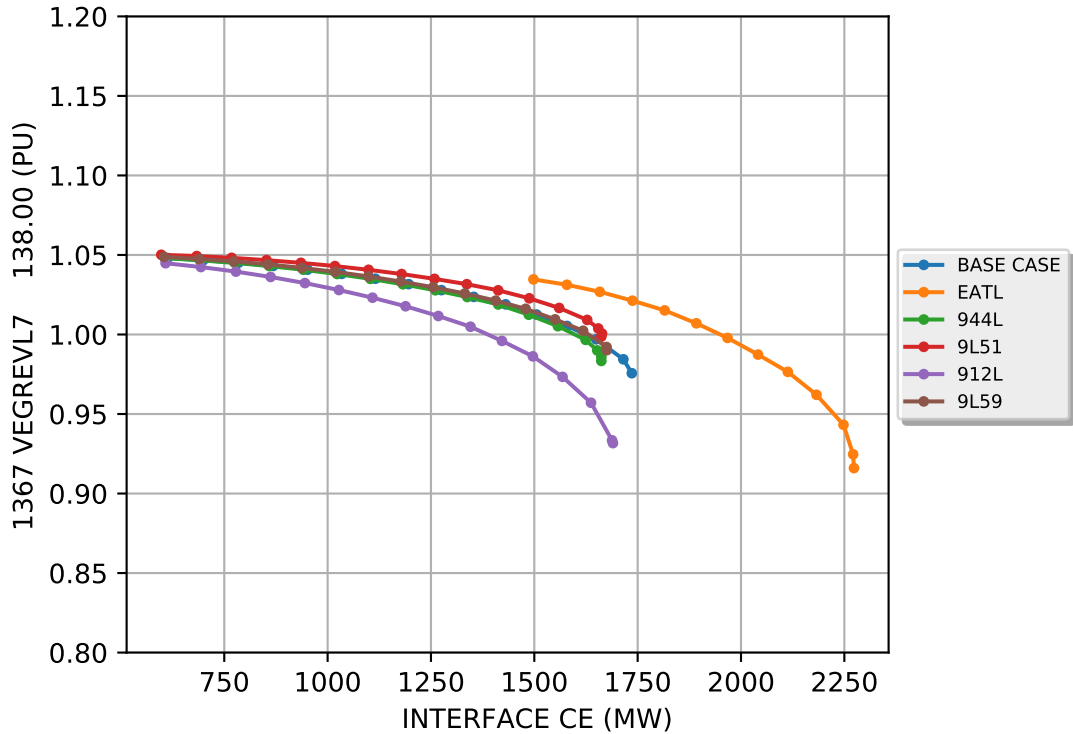


Figure: E-2-162

Case: M6, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 51.8%

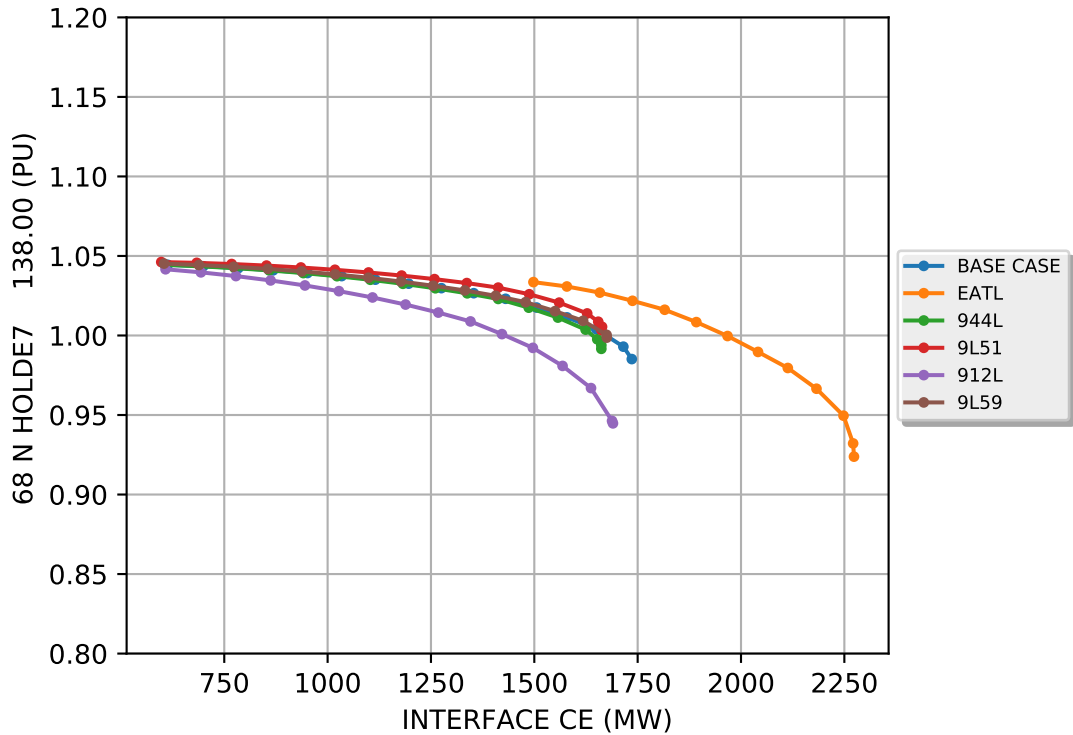


Figure: E-2-163

Case: M6, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 51.8%

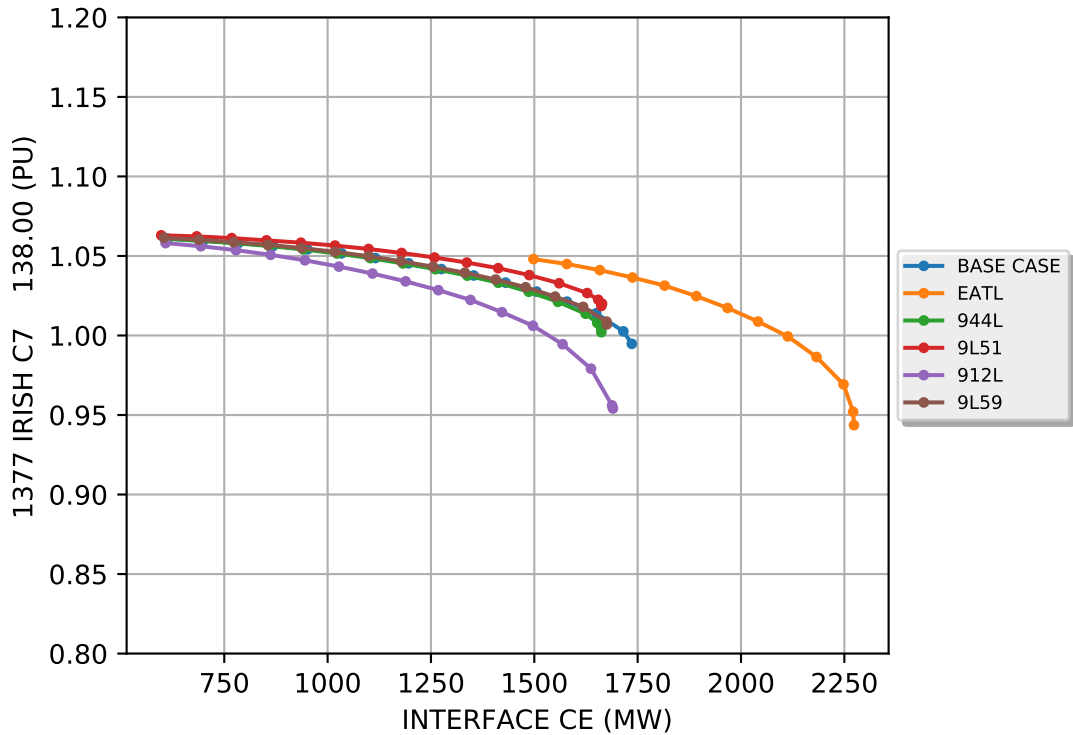


Figure: E-2-164

Case: M6, Option: BOTH

Min Voltage: 0.98 PU, Min Margin: 51.8%

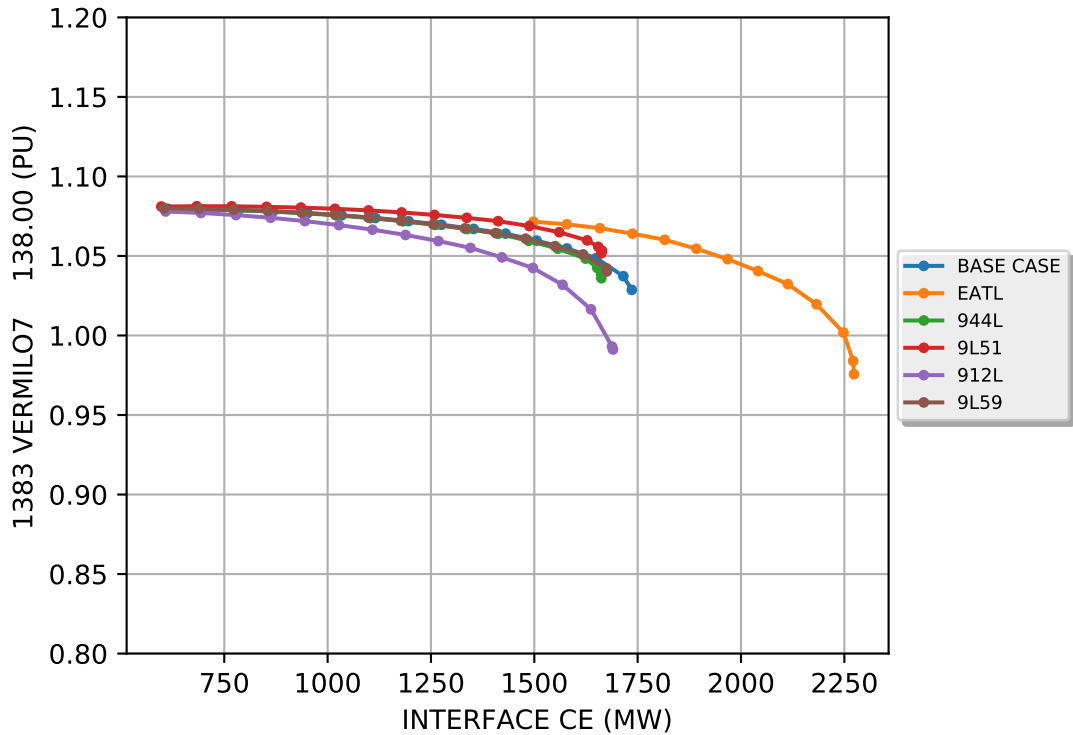


Figure: E-2-165

Case: M6, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 51.8%

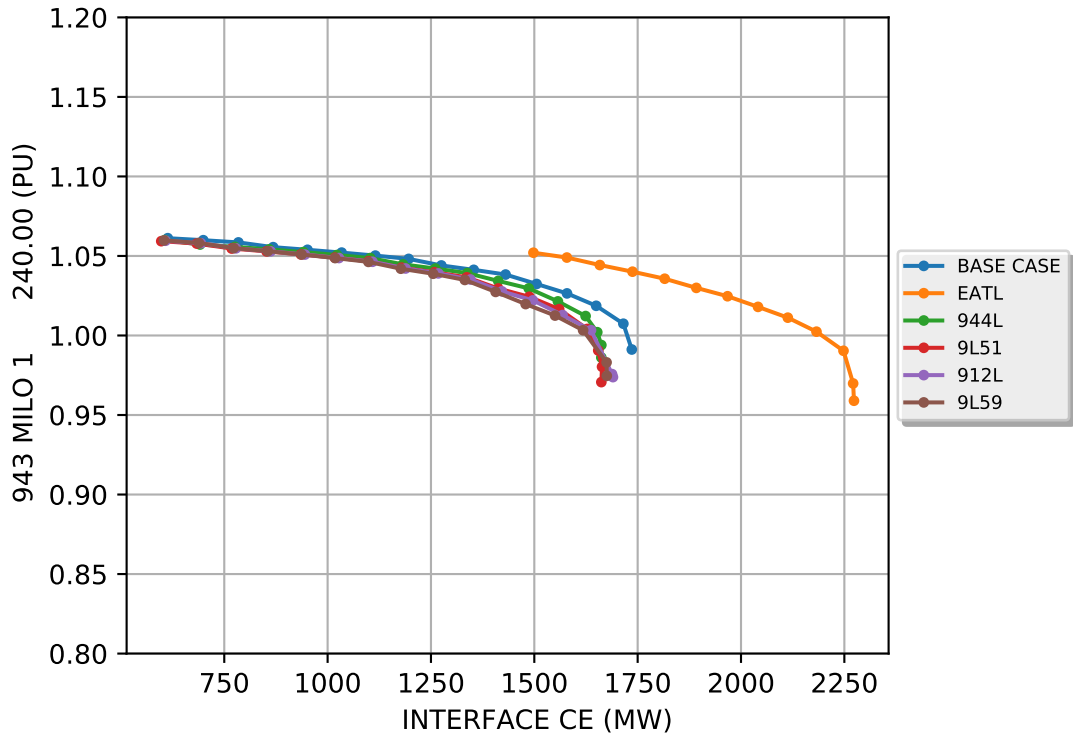


Figure: E-2-166

Case: M6, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 51.8%

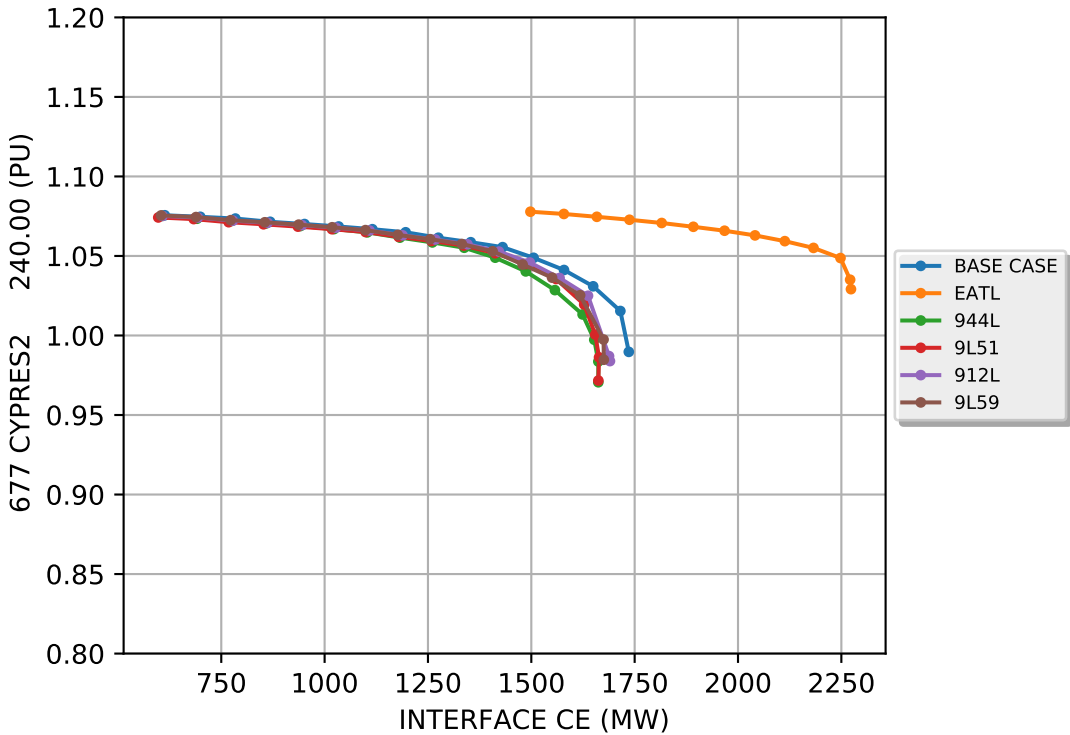


Figure: E-2-167

Case: M6, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 51.8%

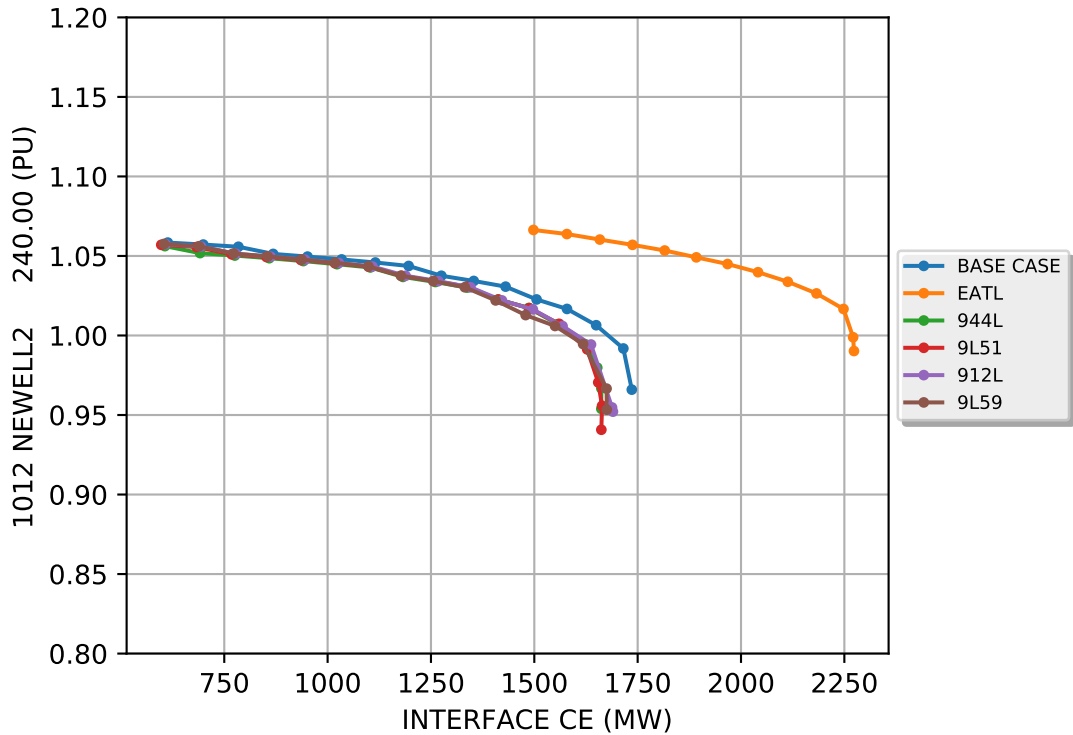


Figure: E-2-168

Case: H1, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 33.9%

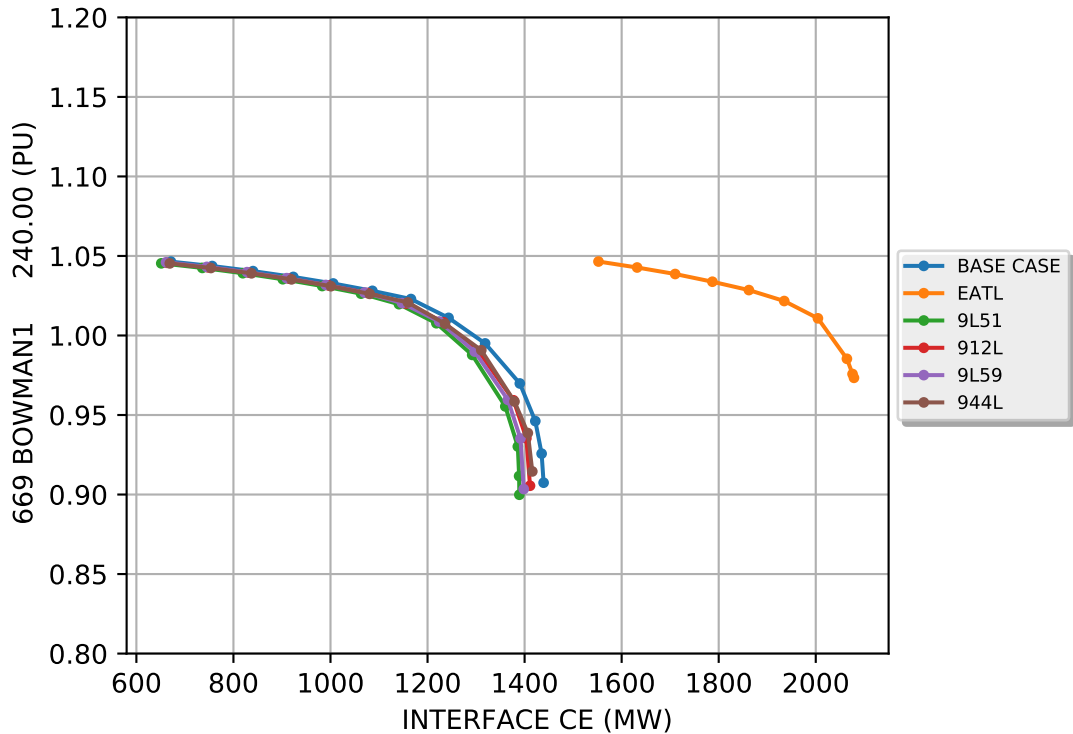


Figure: E-2-169

Case: H1, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 33.9%

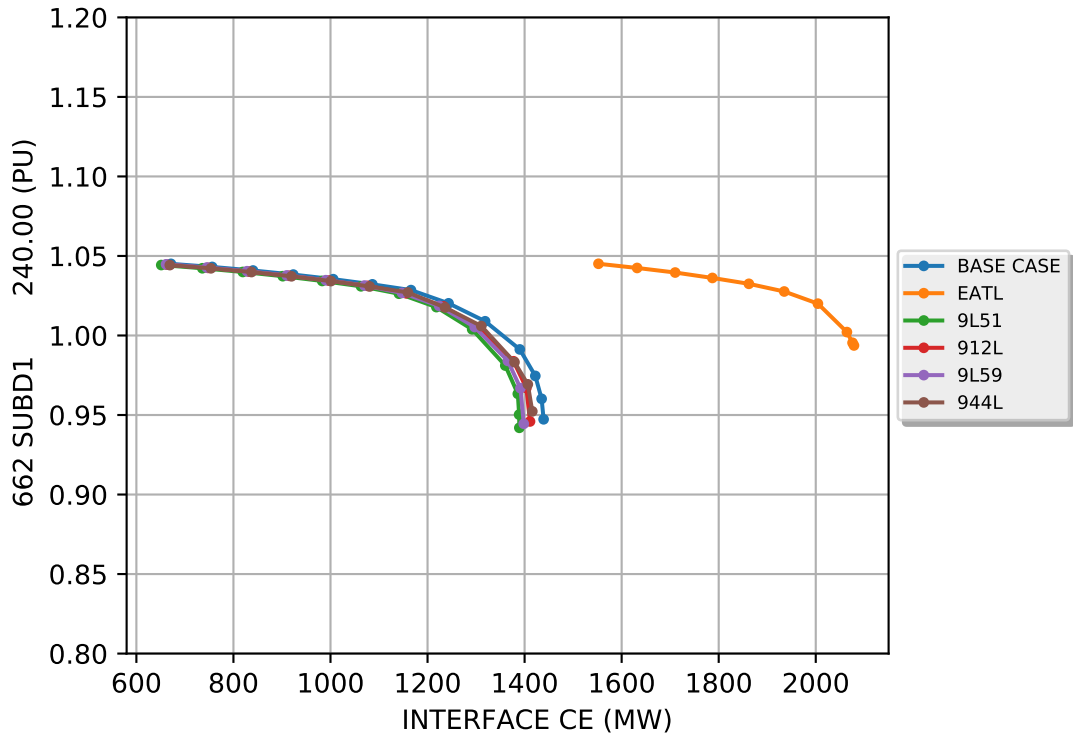


Figure: E-2-170

Case: H1, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 33.9%

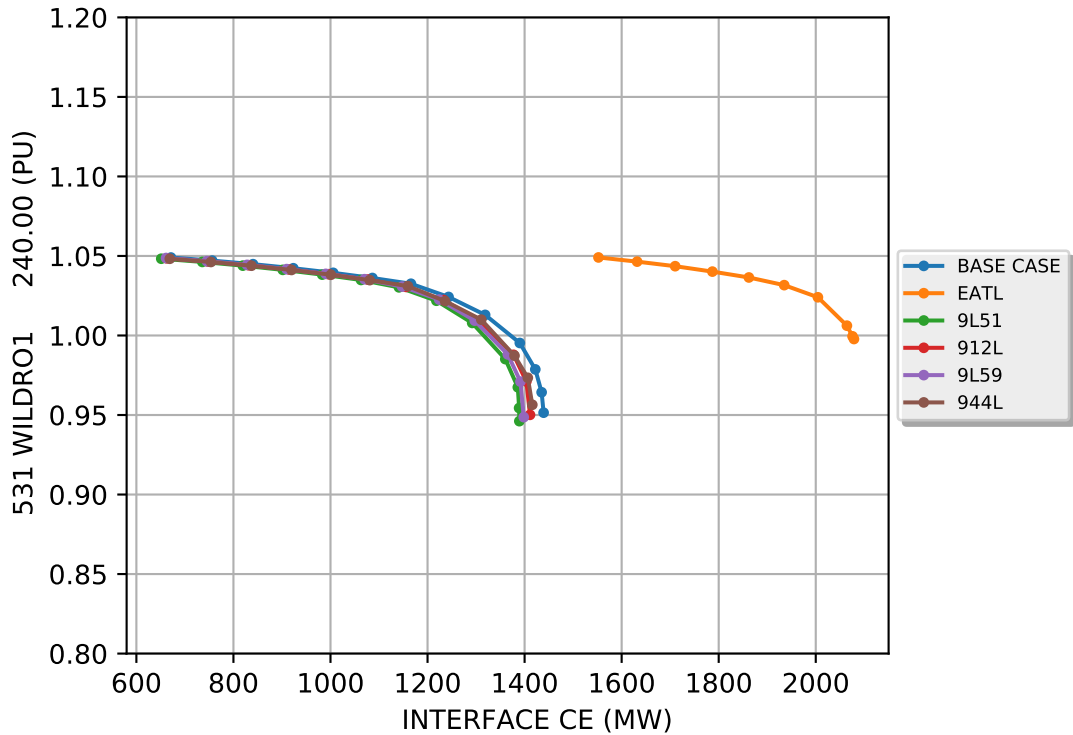


Figure: E-2-171

Case: H1, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 33.9%

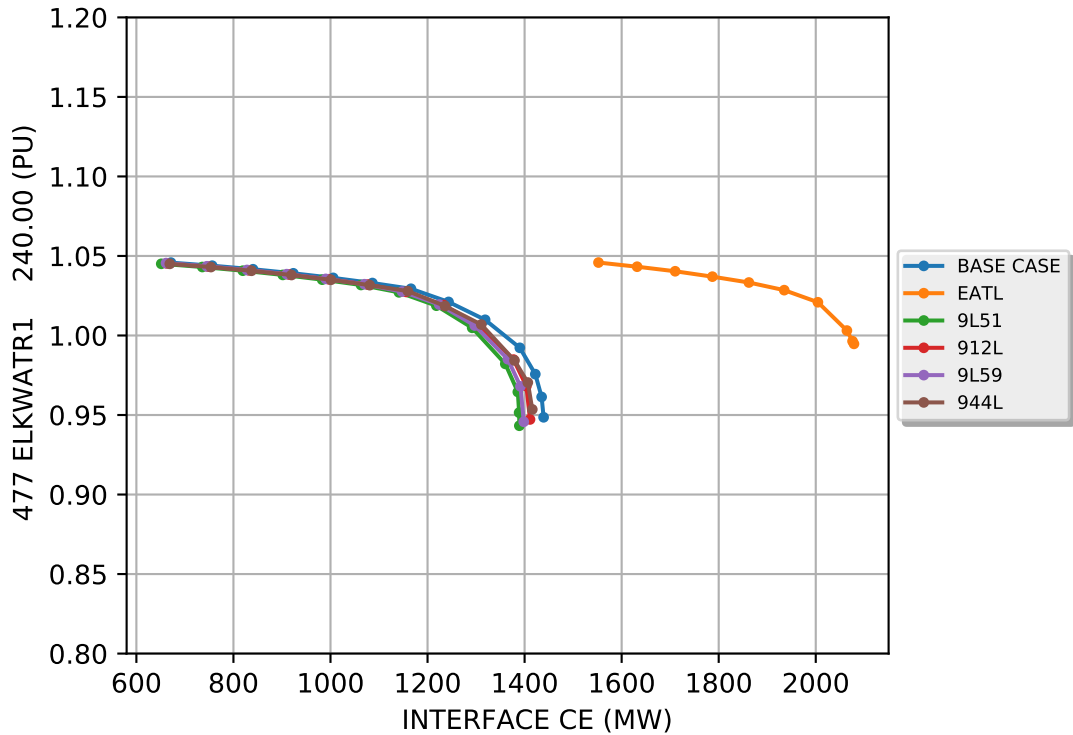


Figure: E-2-172

Case: H1, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 33.9%

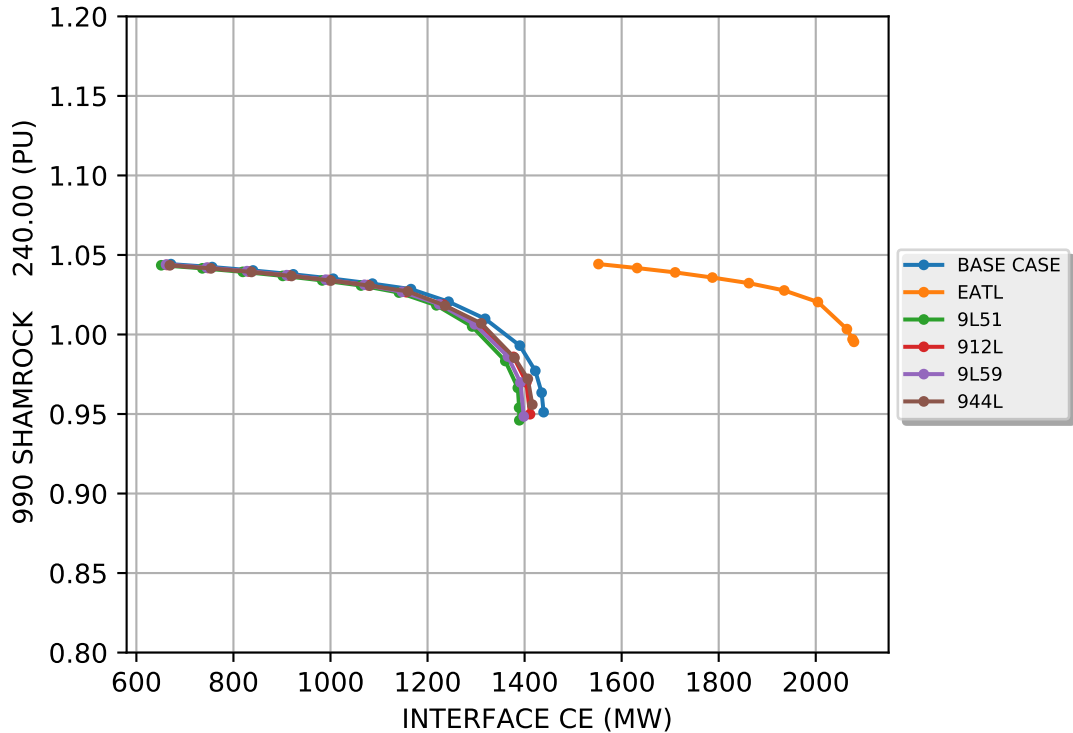


Figure: E-2-173

Case: H1, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 33.9%

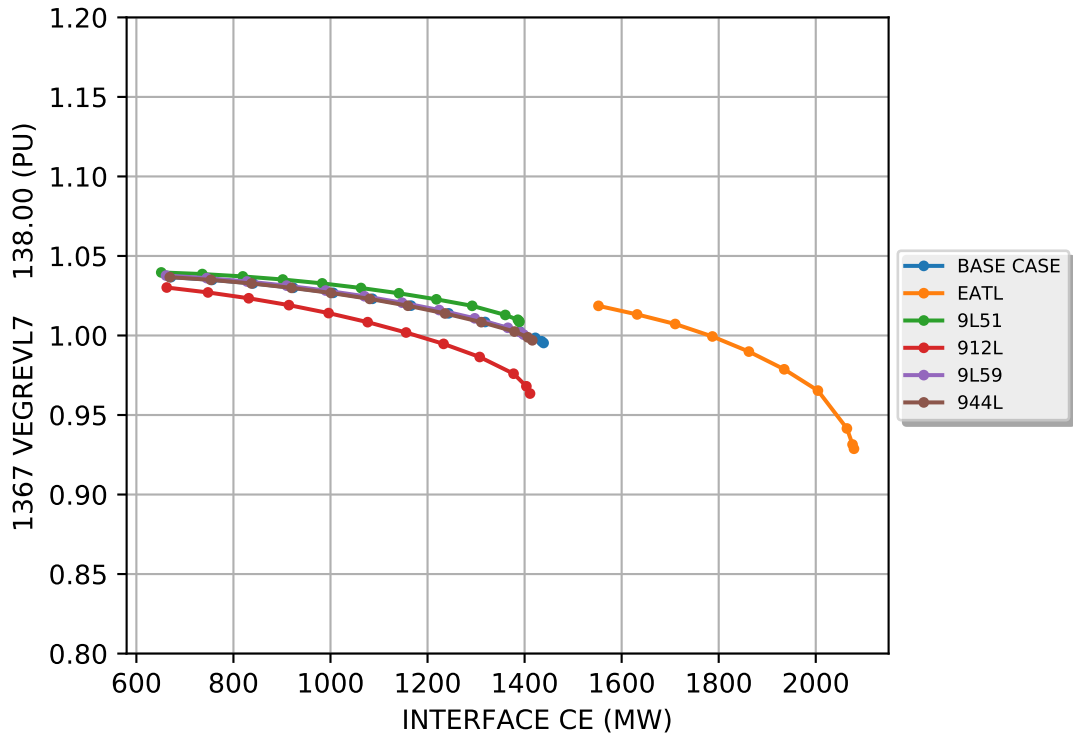


Figure: E-2-174

Case: H1, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 33.9%

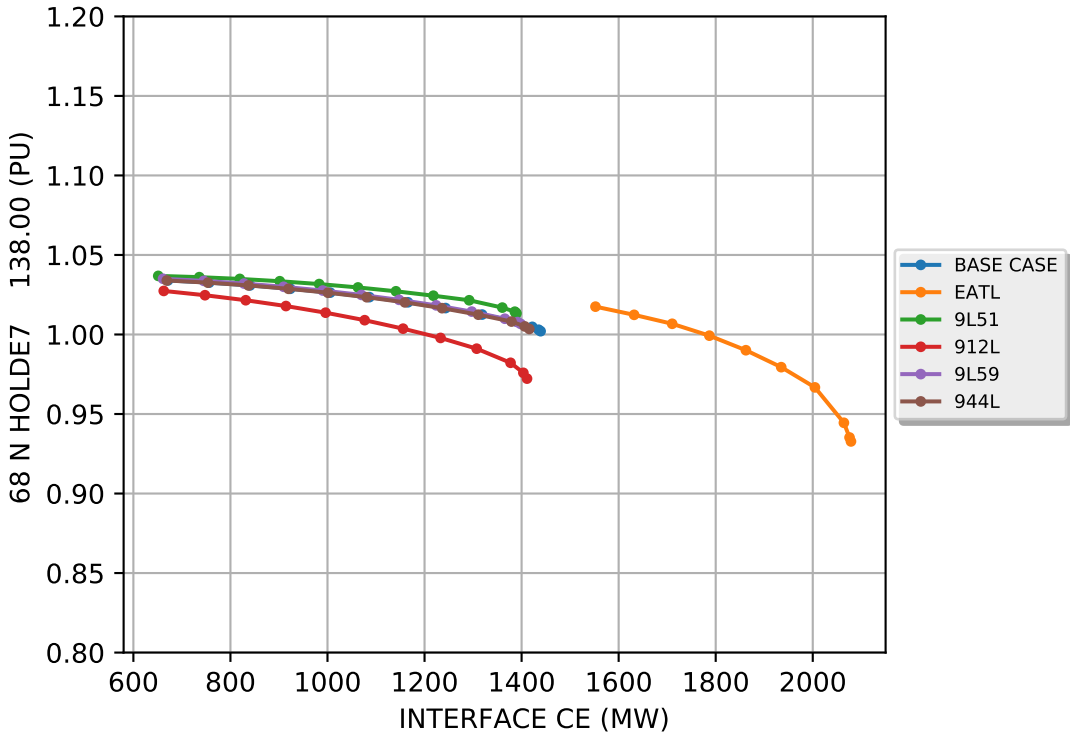


Figure: E-2-175

Case: H1, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 33.9%

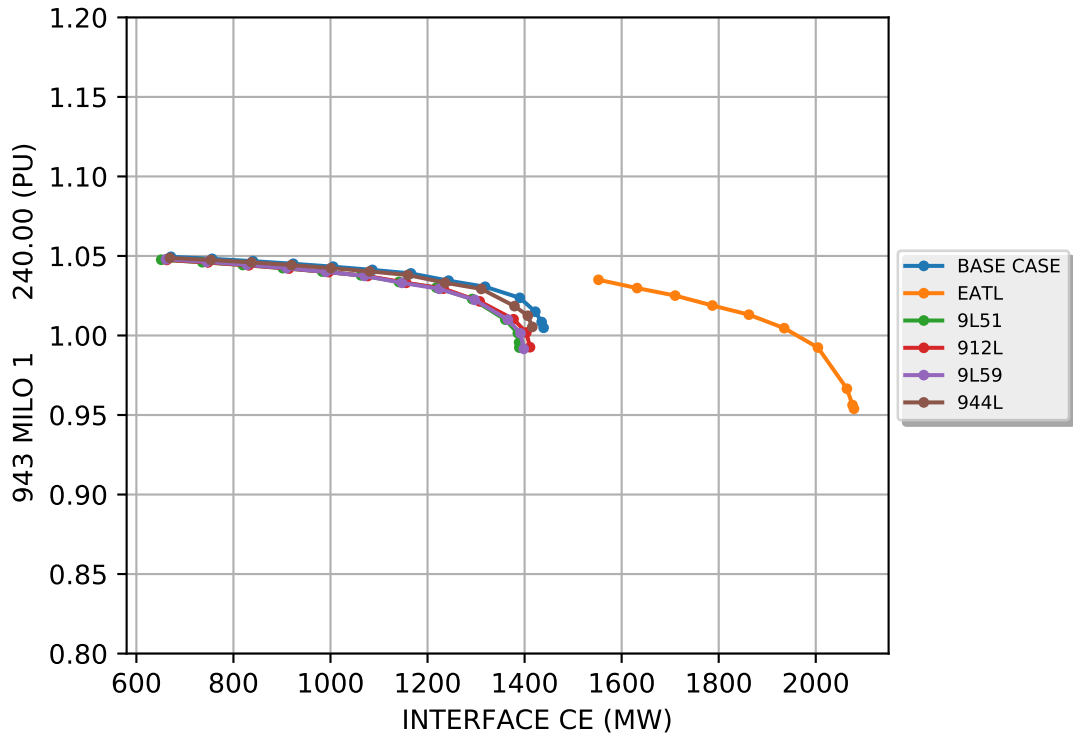


Figure: E-2-176

Case: H1, Option: BOTH

Min Voltage: 0.98 PU, Min Margin: 33.9%

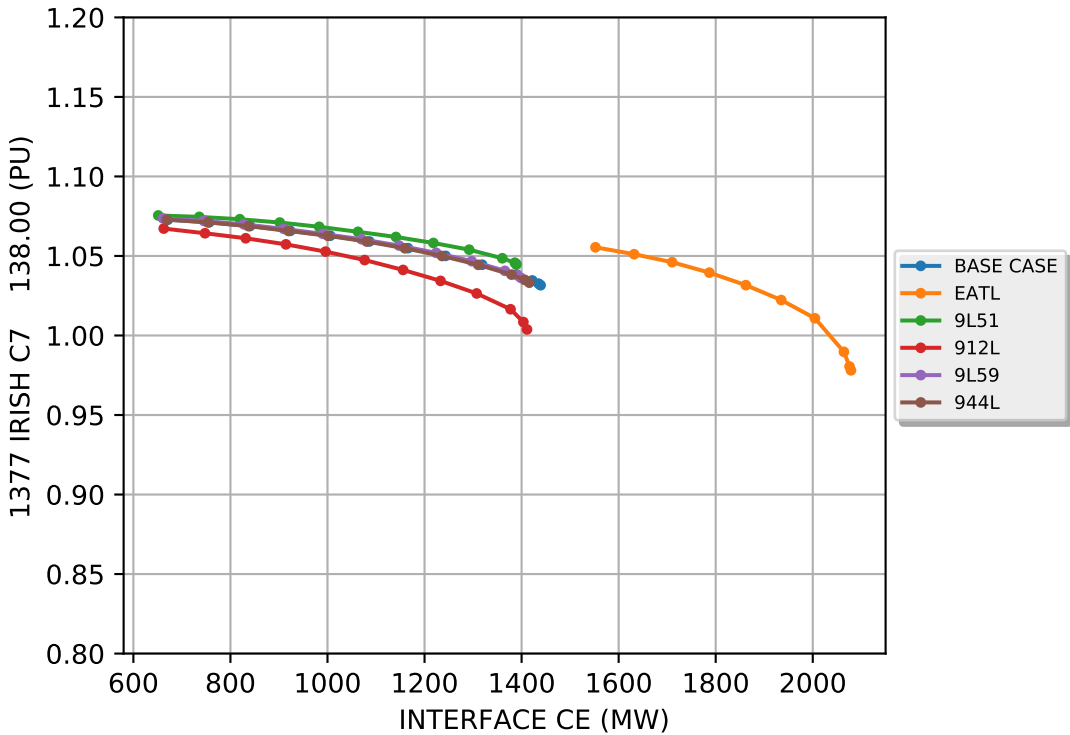


Figure: E-2-177

Case: H1, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 33.9%

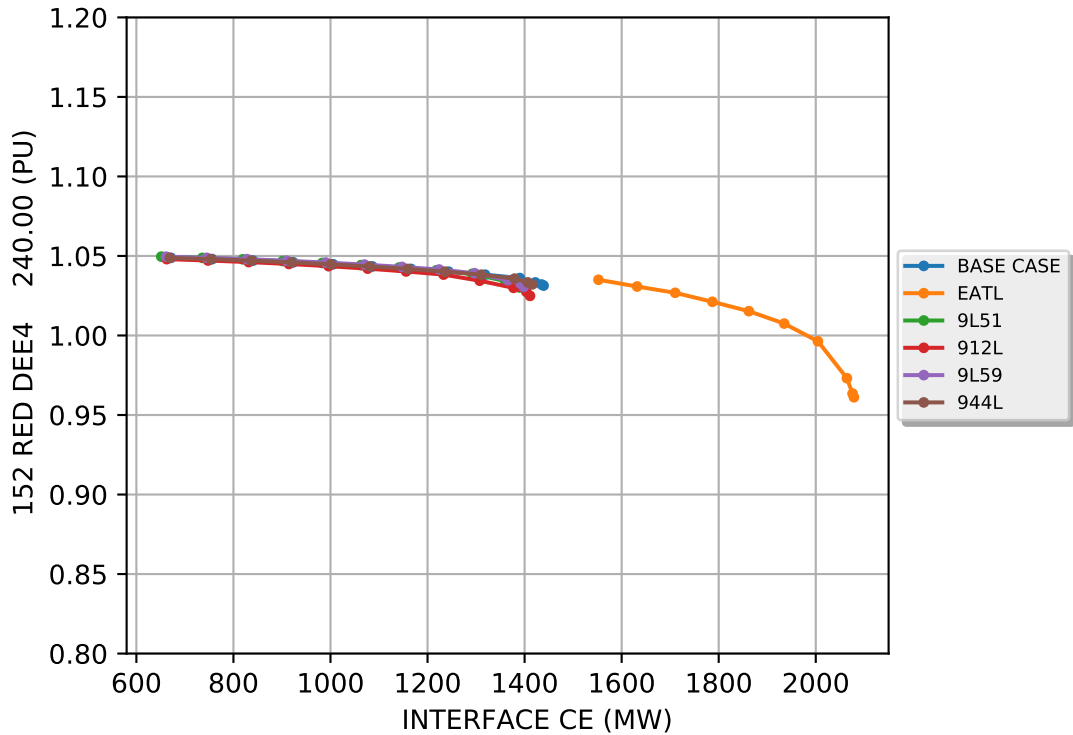


Figure: E-2-178

Case: H2, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 27.3%

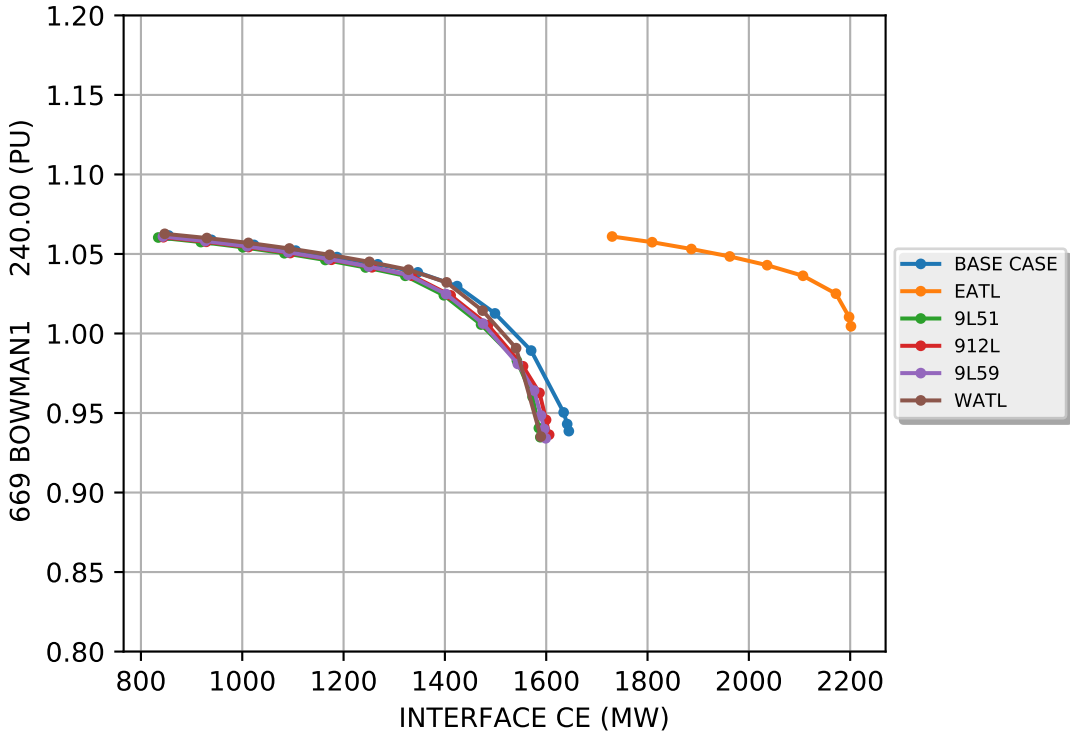


Figure: E-2-179

Case: H2, Option: BOTH

Min Voltage: 0.98 PU, Min Margin: 27.3%

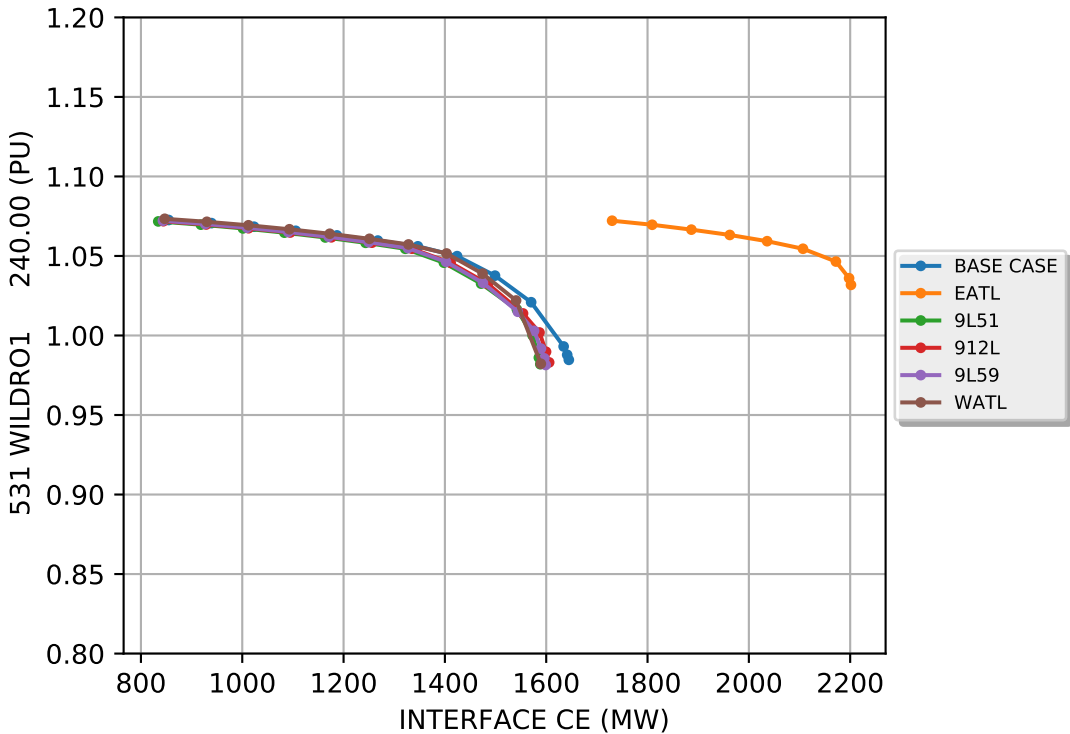


Figure: E-2-180

Case: H2, Option: BOTH

Min Voltage: 0.98 PU, Min Margin: 27.3%

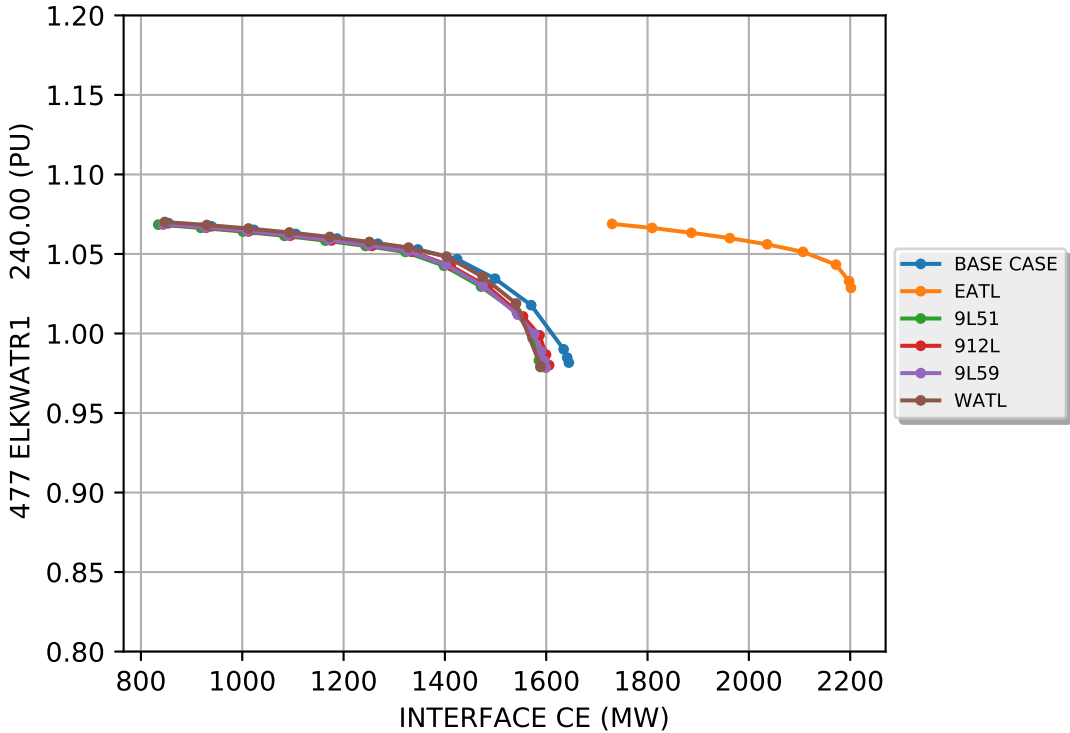


Figure: E-2-181

Case: H2, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 27.3%

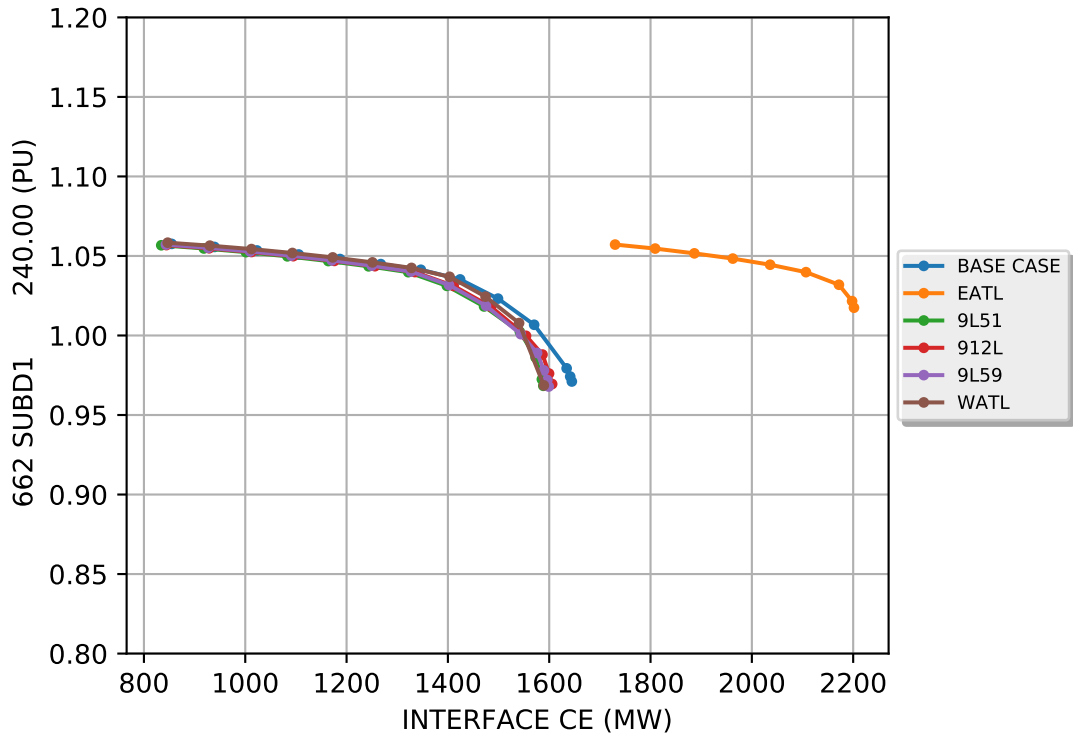


Figure: E-2-182

Case: H2, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 27.3%

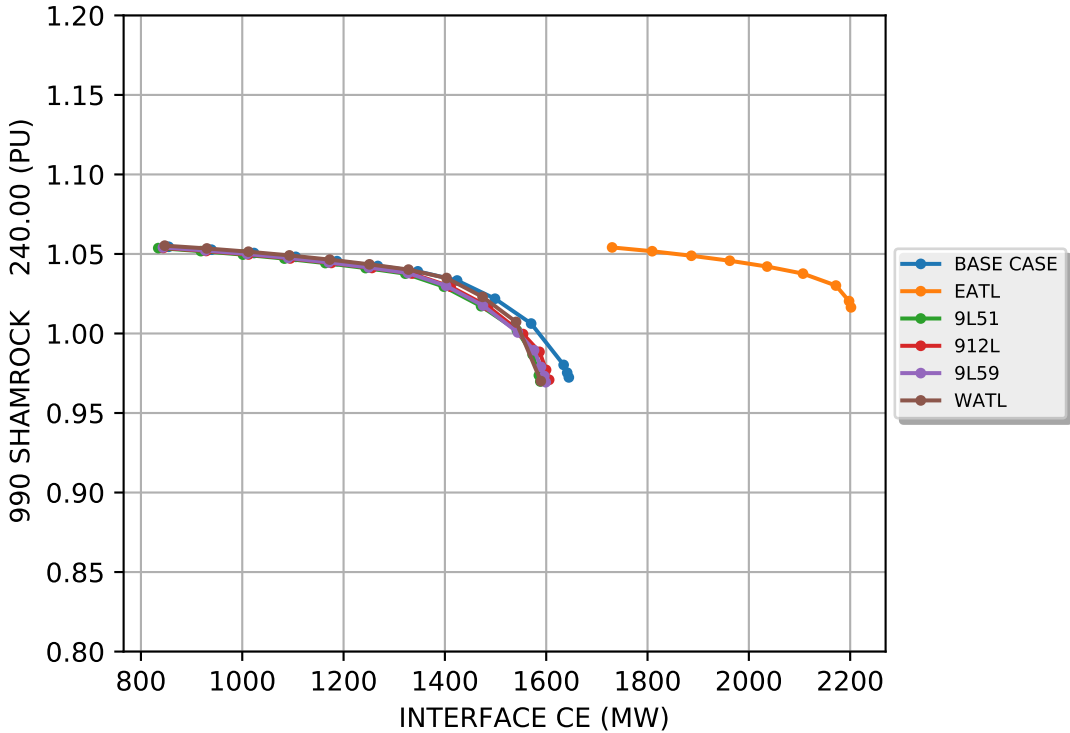


Figure: E-2-183

Case: H2, Option: BOTH

Min Voltage: 0.89 PU, Min Margin: 27.3%

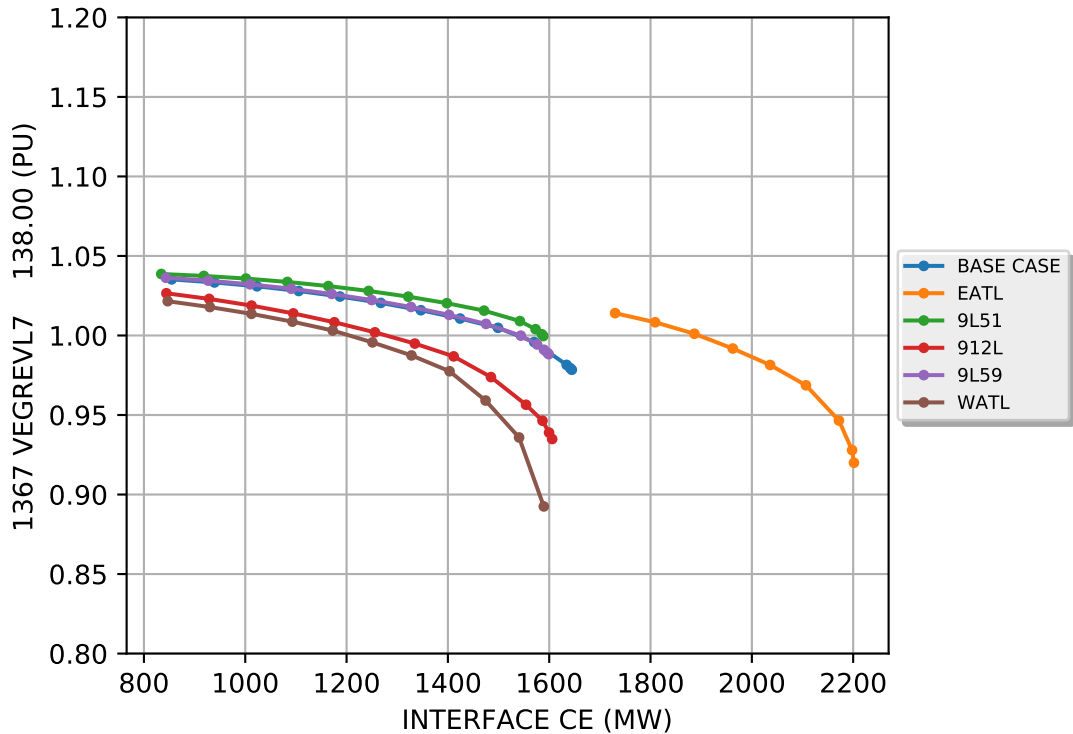


Figure: E-2-184

Case: H2, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 27.3%

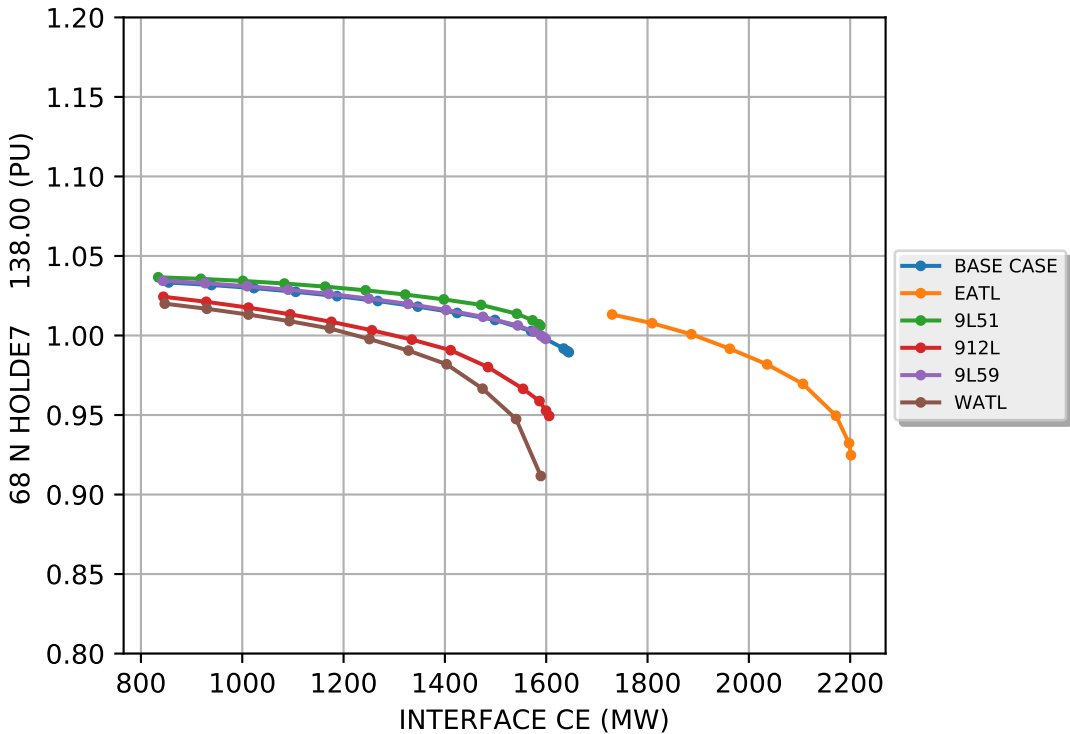


Figure: E-2-185

Case: H2, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 27.3%

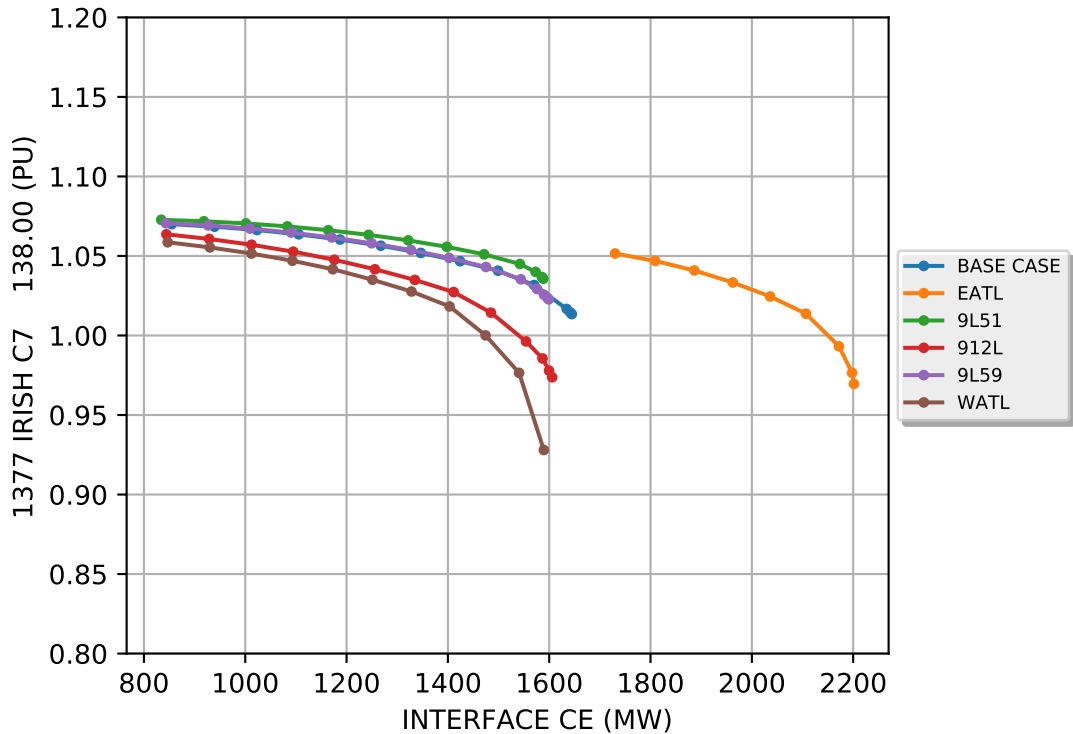


Figure: E-2-186

Case: H2, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 27.3%

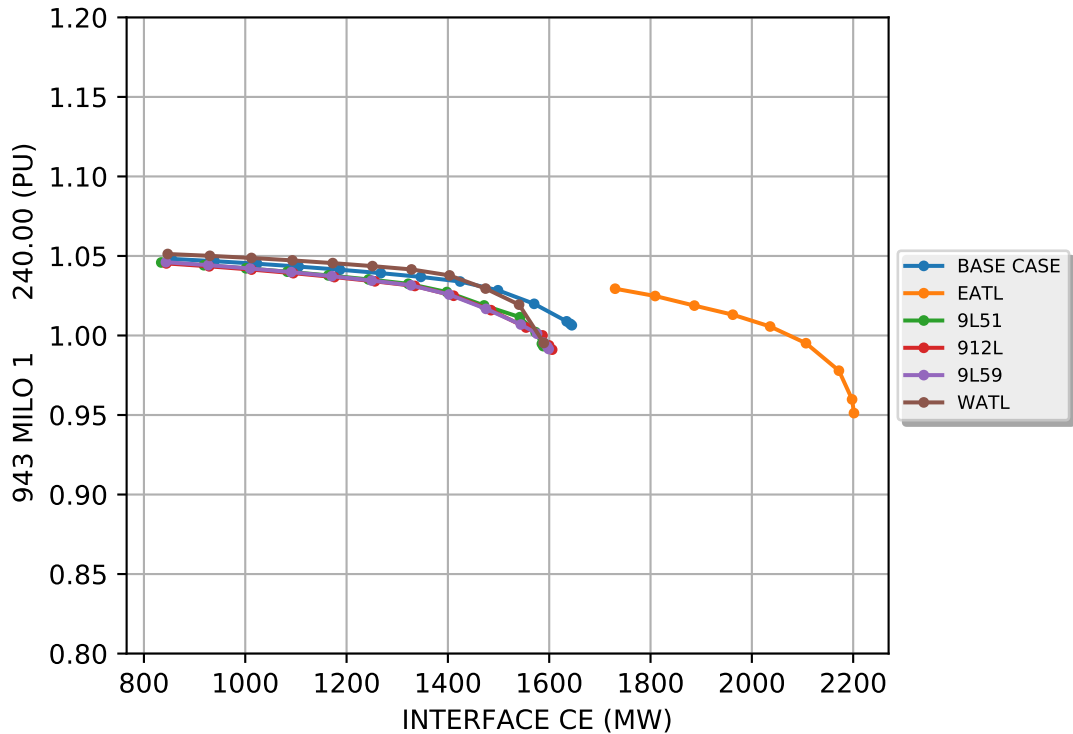


Figure: E-2-187

Case: H2, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 27.3%

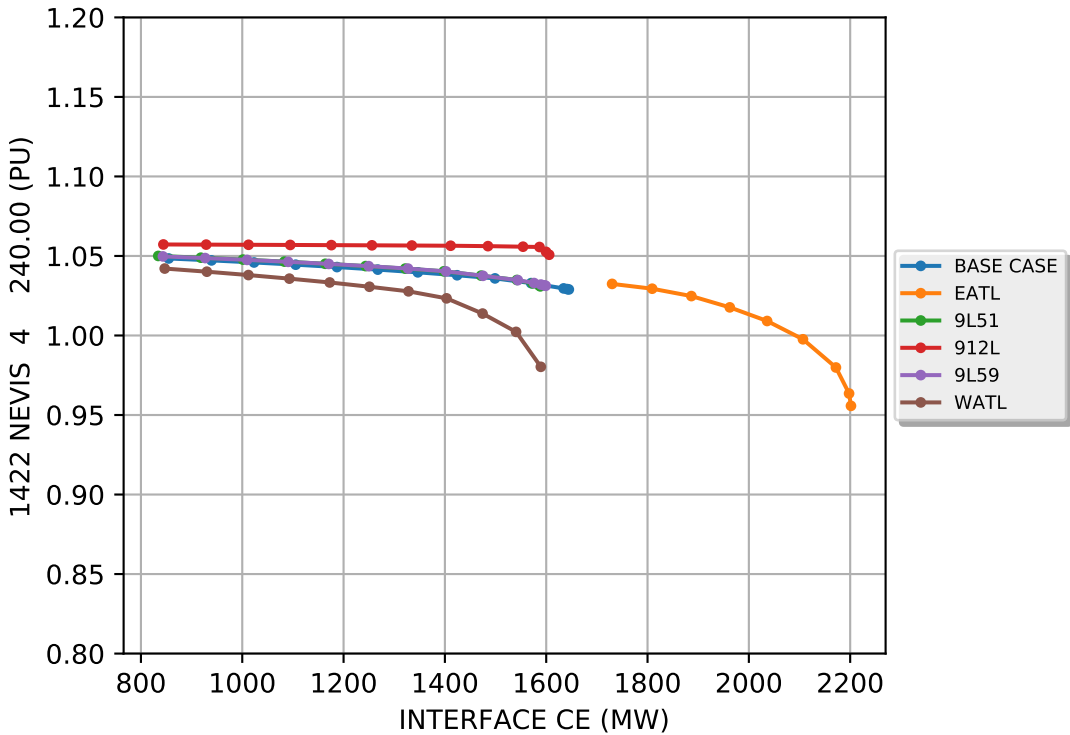


Figure: E-2-188

Case: H2, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 27.3%

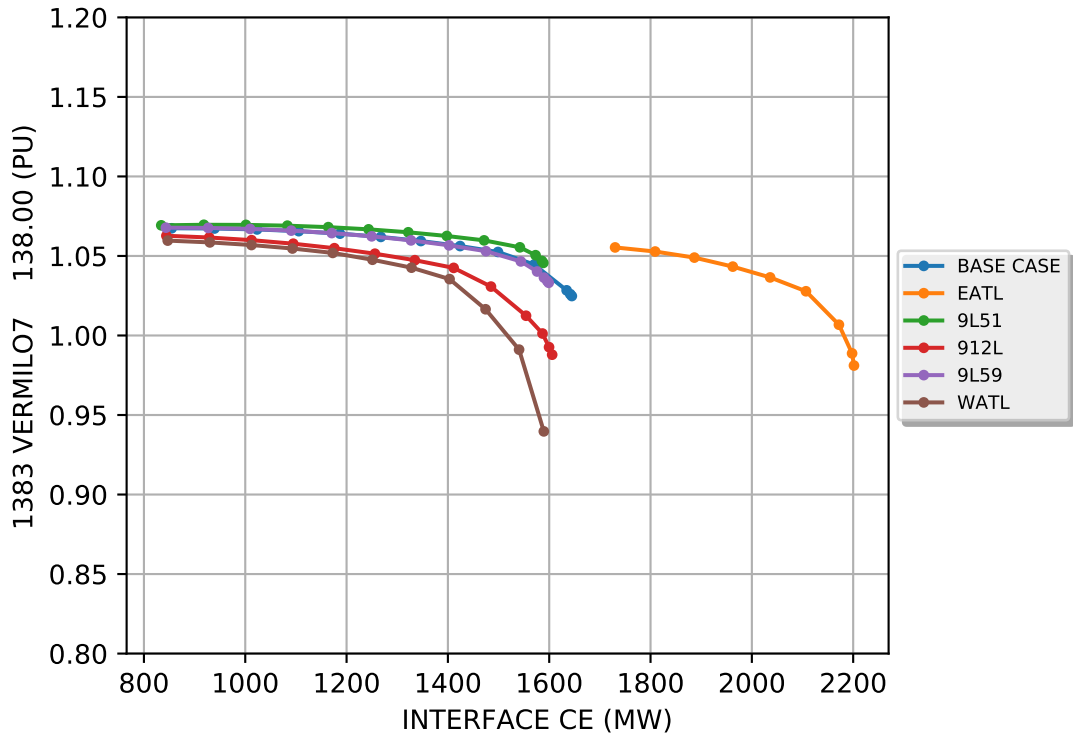


Figure: E-2-189

Case: M4, Option: BOTH

Min Voltage: 0.89 PU, Min Margin: 26.7%

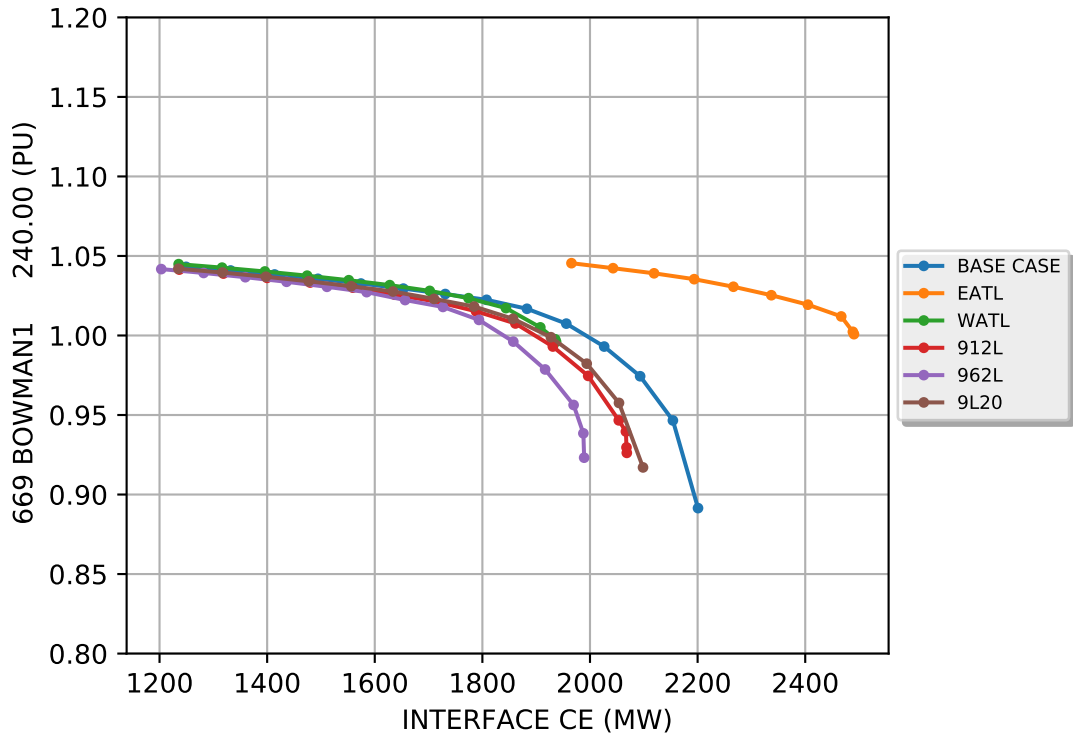


Figure: E-2-190

Case: M4, Option: BOTH

Min Voltage: 0.84 PU, Min Margin: 26.7%

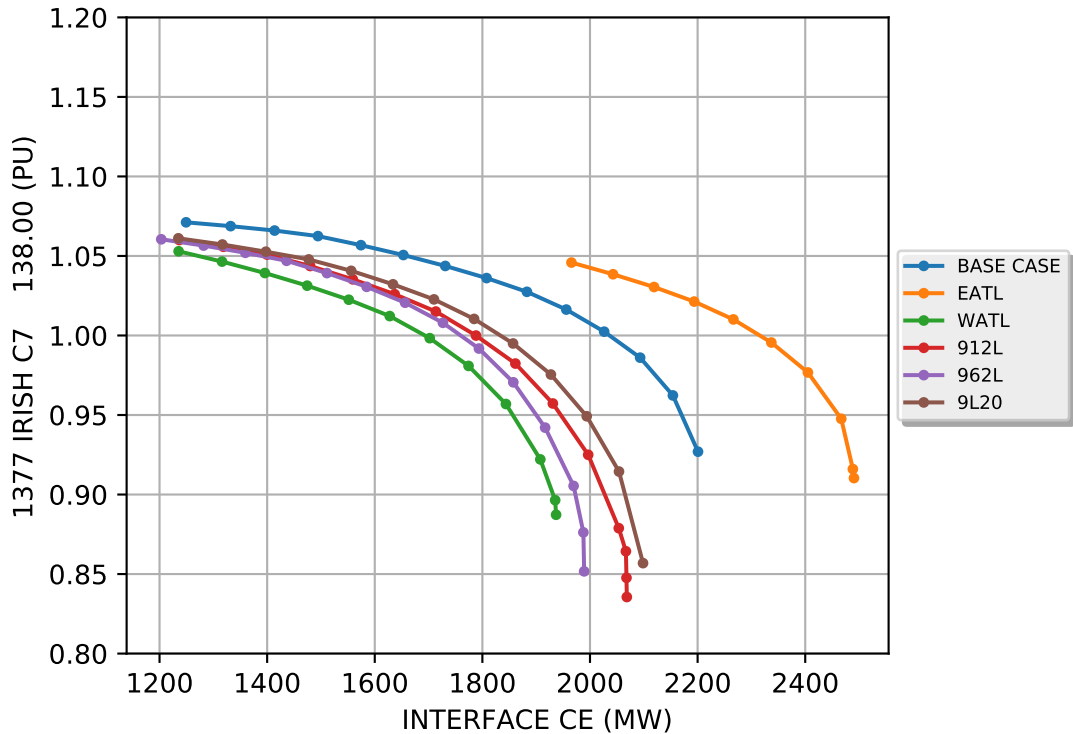


Figure: E-2-191

Case: M4, Option: BOTH

Min Voltage: 0.80 PU, Min Margin: 26.7%

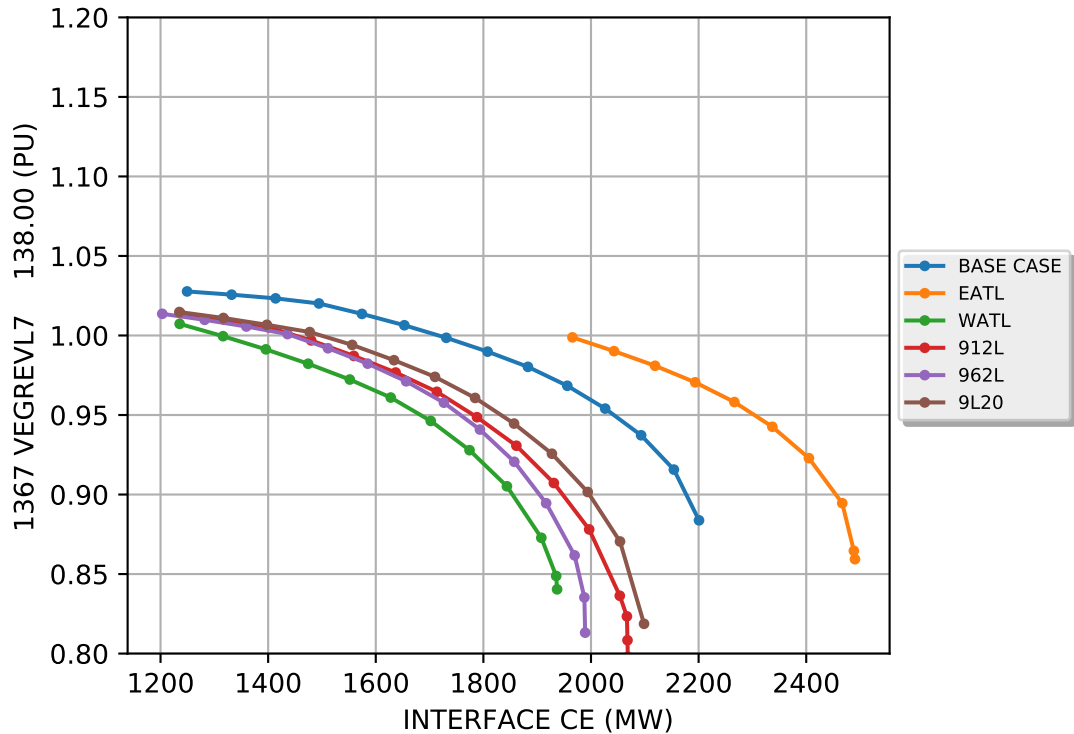


Figure: E-2-192

Case: M4, Option: BOTH

Min Voltage: 0.86 PU, Min Margin: 26.7%

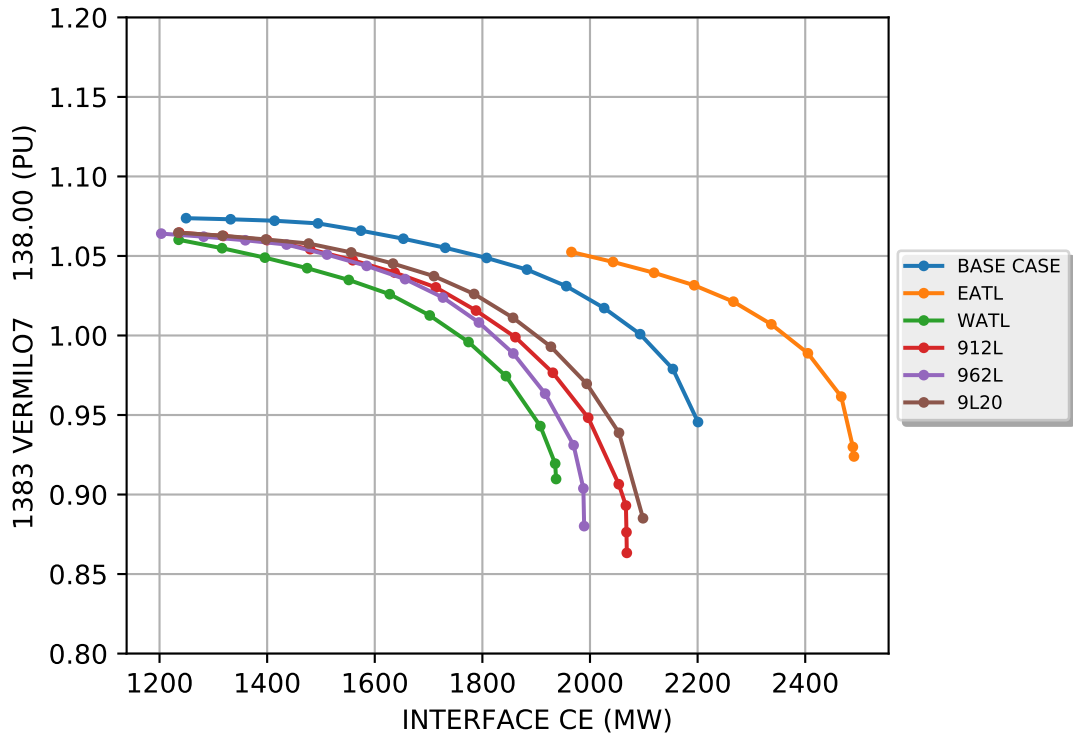


Figure: E-2-193

Case: M4, Option: BOTH

Min Voltage: 0.82 PU, Min Margin: 26.7%

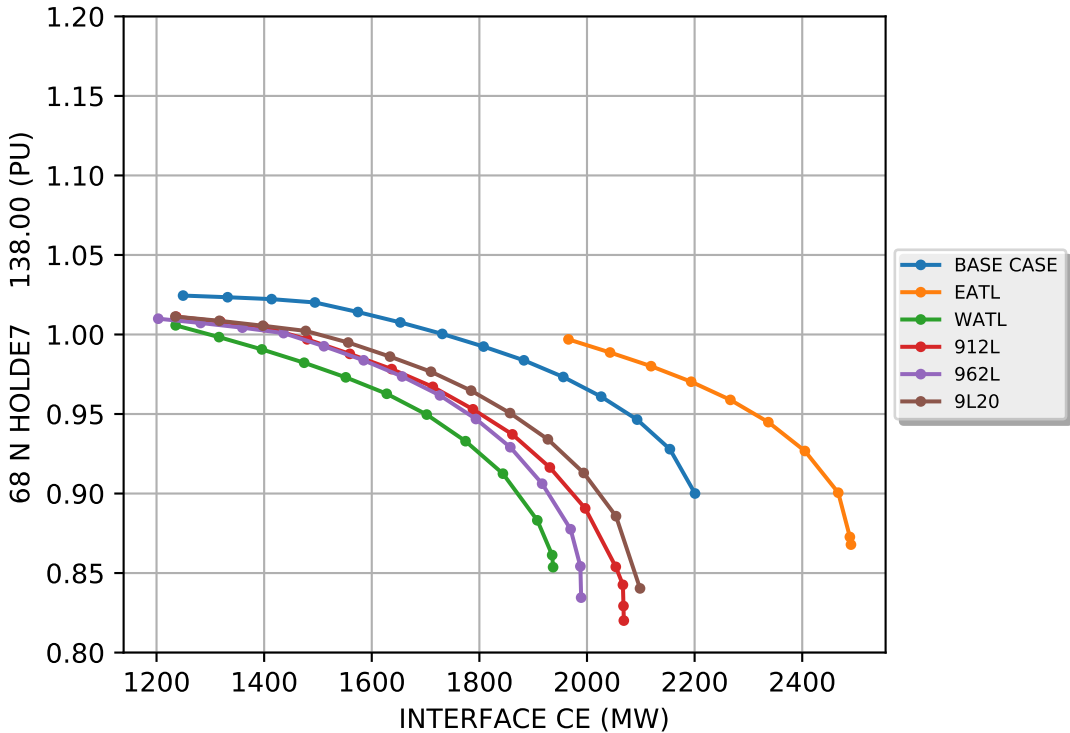


Figure: E-2-194

Case: M4, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 26.7%

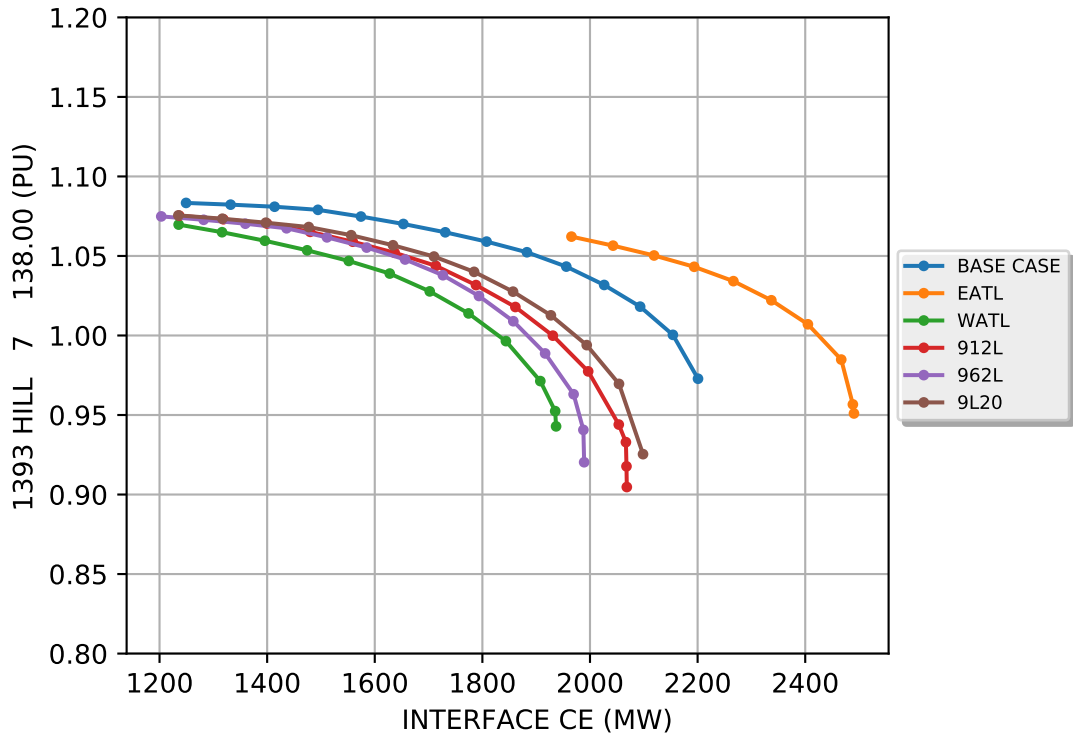


Figure: E-2-195

Case: M1, Option: BOTH

Min Voltage: 0.88 PU, Min Margin: 48.2%

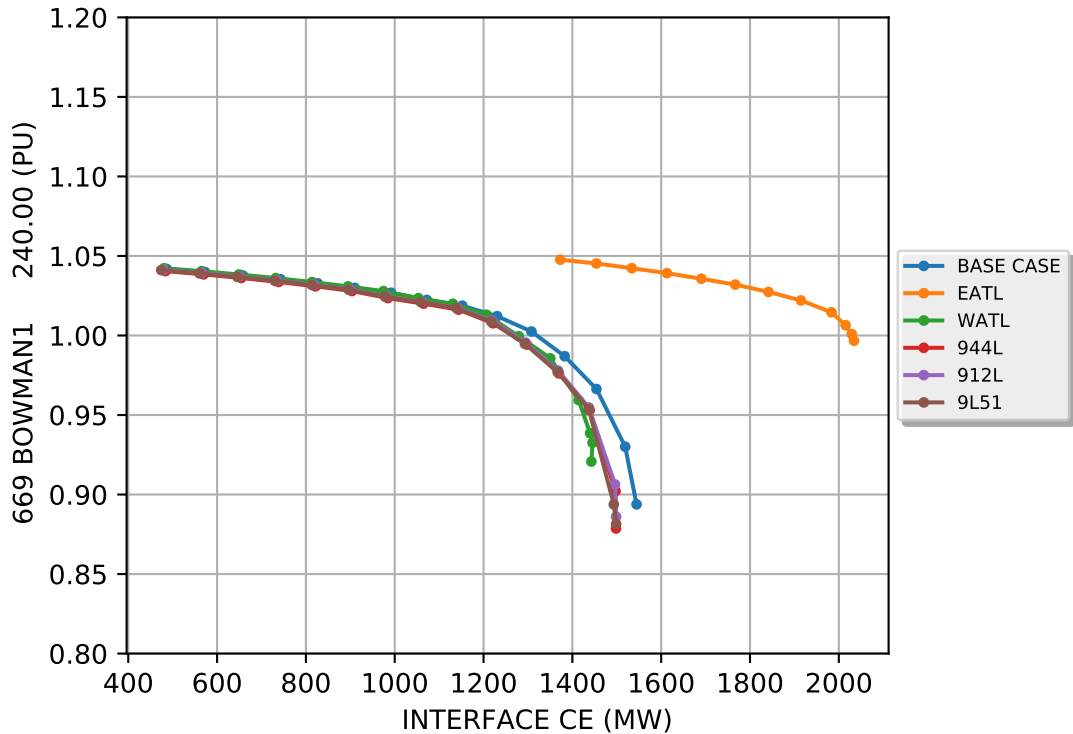


Figure: E-2-196

Case: M1, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 48.2%

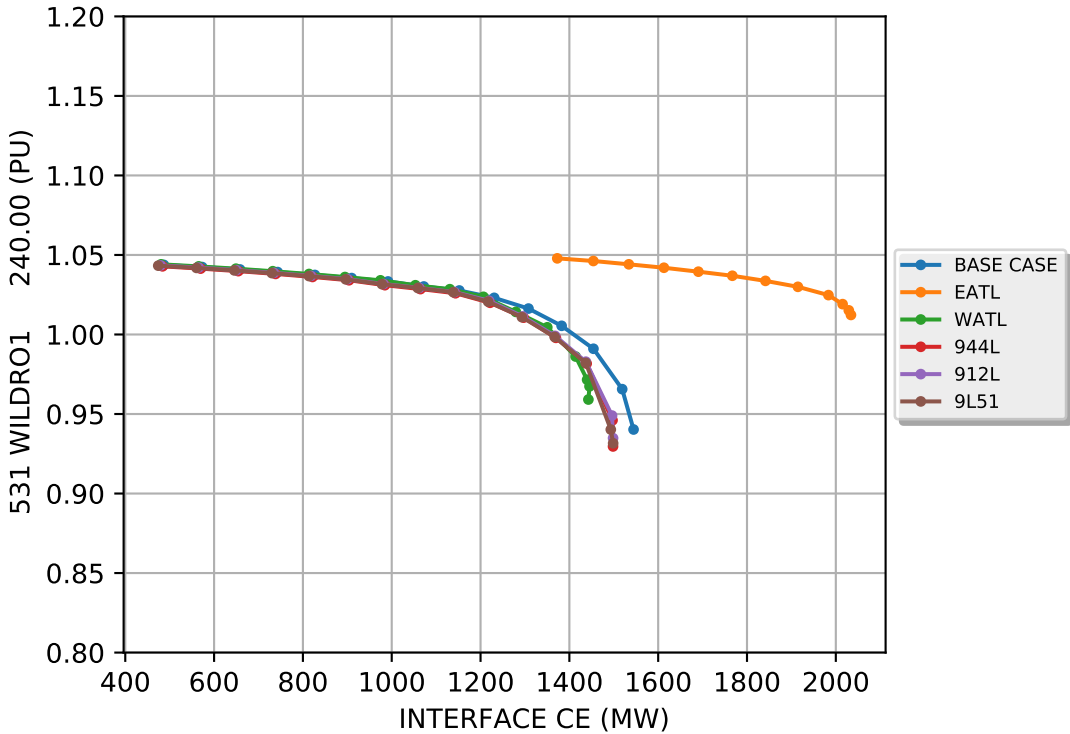


Figure: E-2-197

Case: M1, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 48.2%

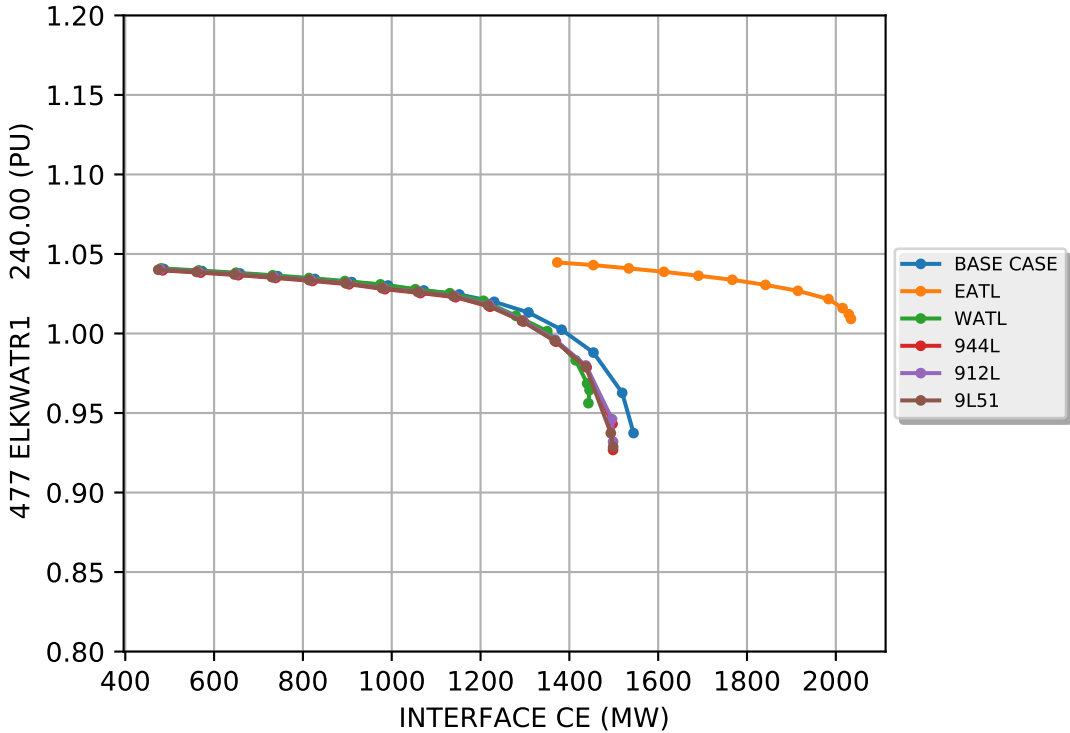


Figure: E-2-198

Case: M1, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 48.2%

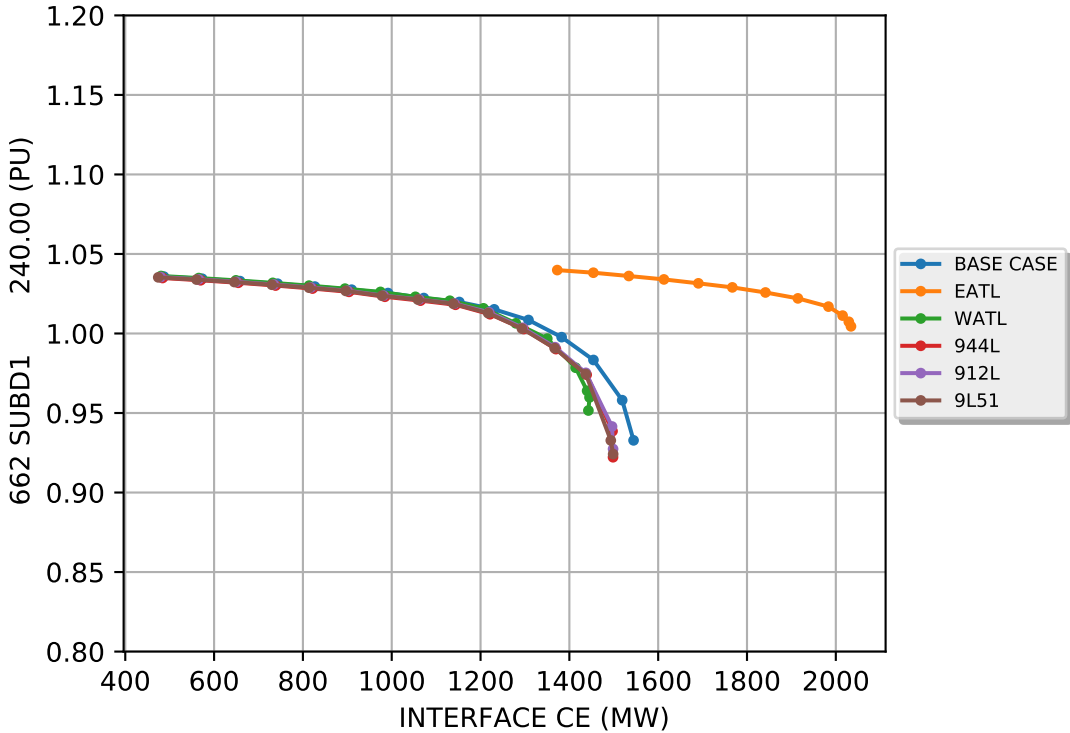


Figure: E-2-199

Case: M1, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 48.2%

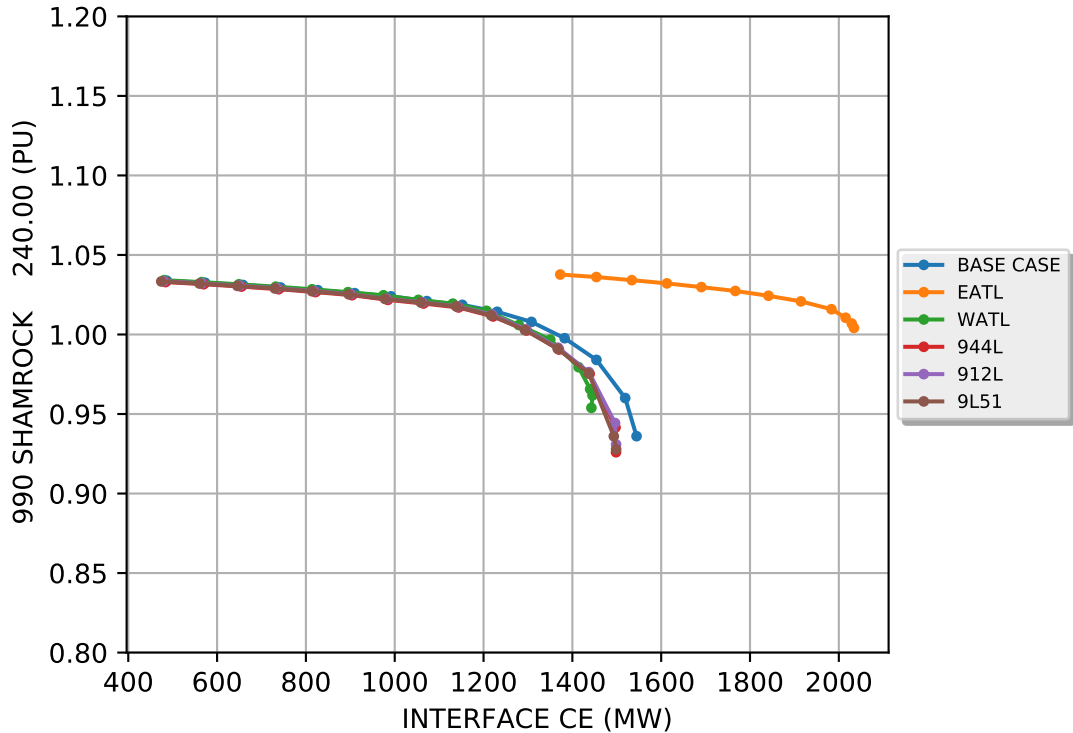


Figure: E-2-200

Case: M1, Option: BOTH

Min Voltage: 0.87 PU, Min Margin: 48.2%

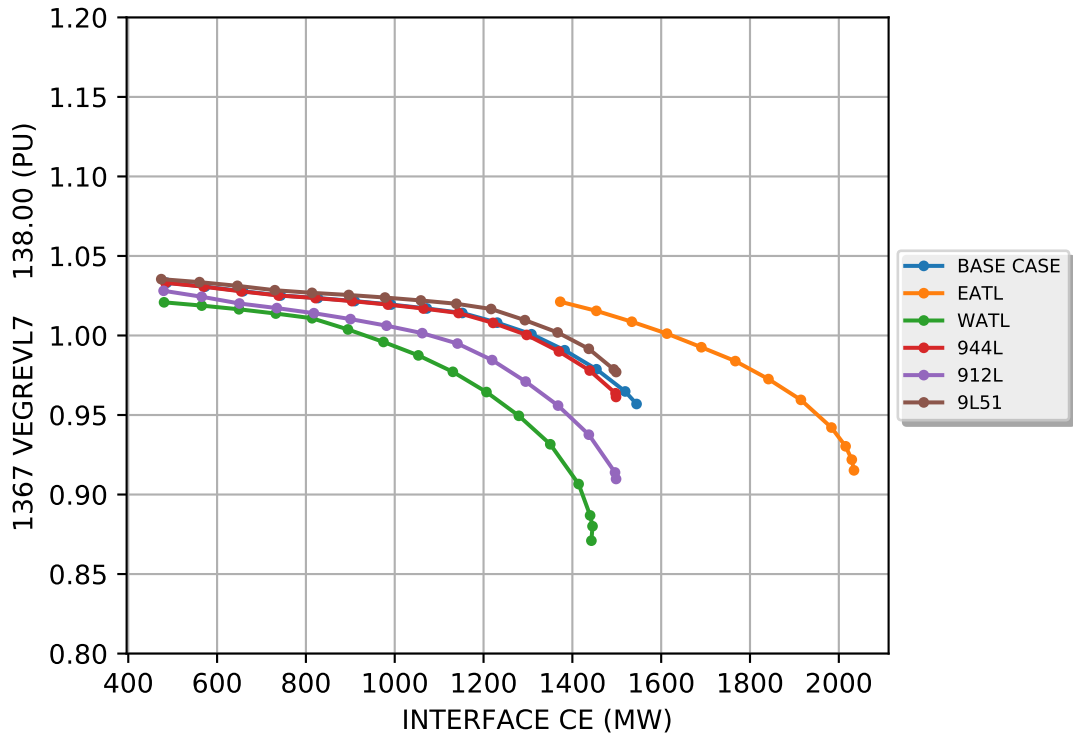


Figure: E-2-201

Case: M1, Option: BOTH

Min Voltage: 0.89 PU, Min Margin: 48.2%

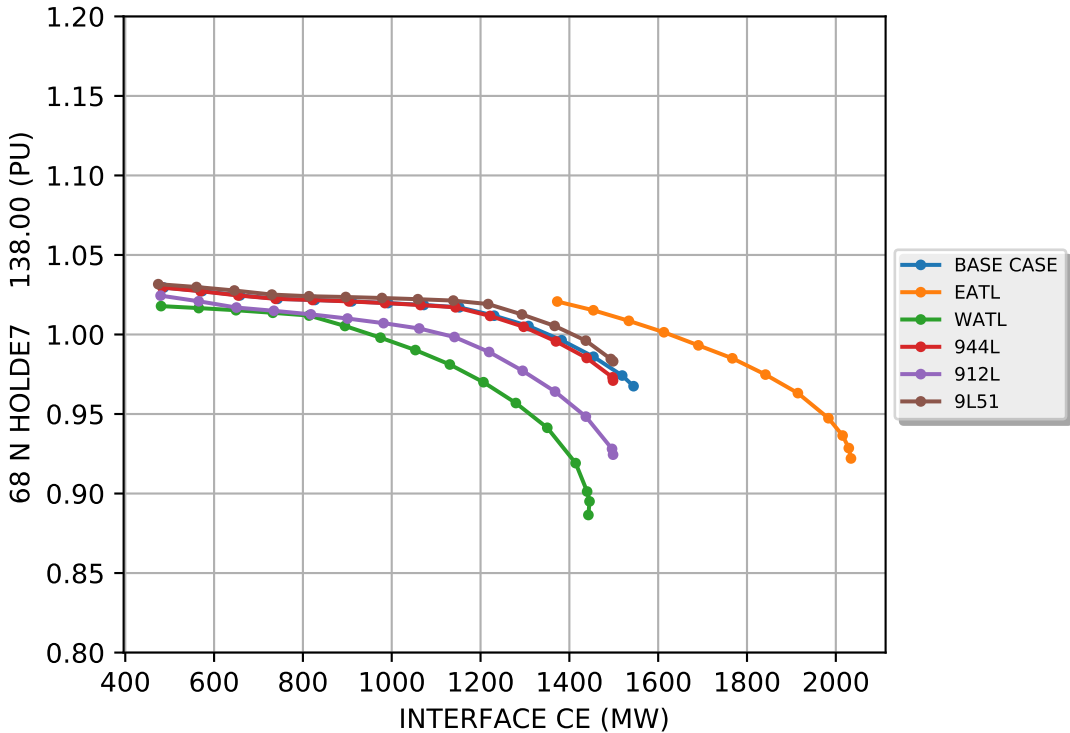


Figure: E-2-202

Case: M1, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 48.2%

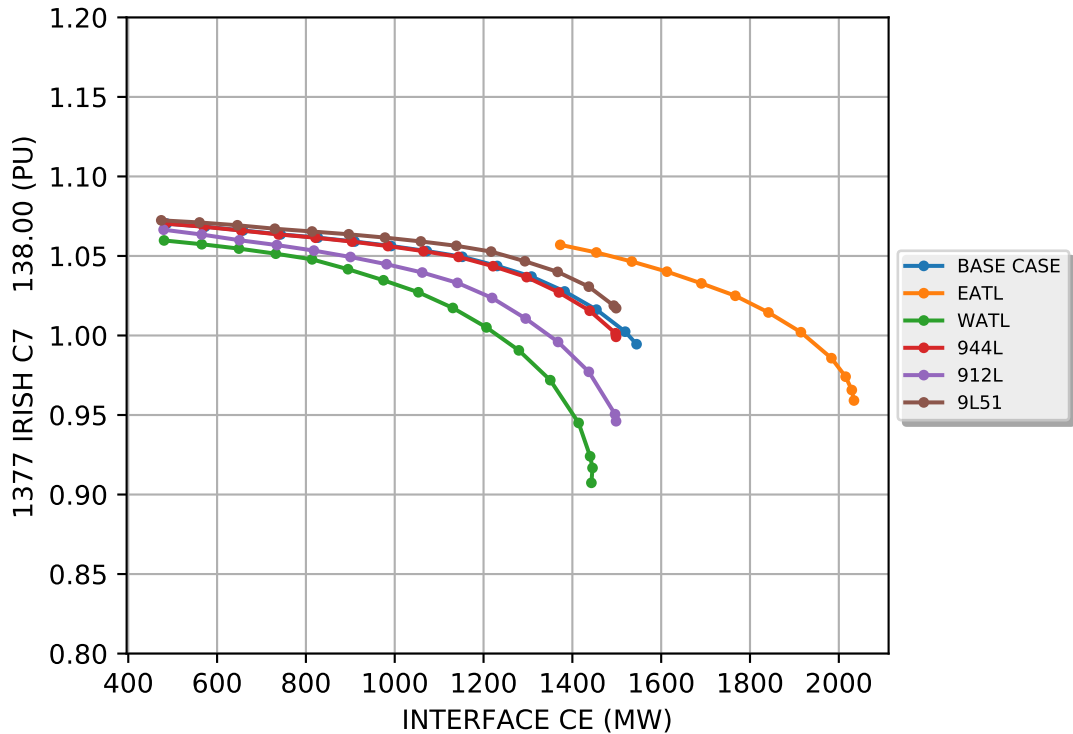


Figure: E-2-203

Case: M1, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 48.2%

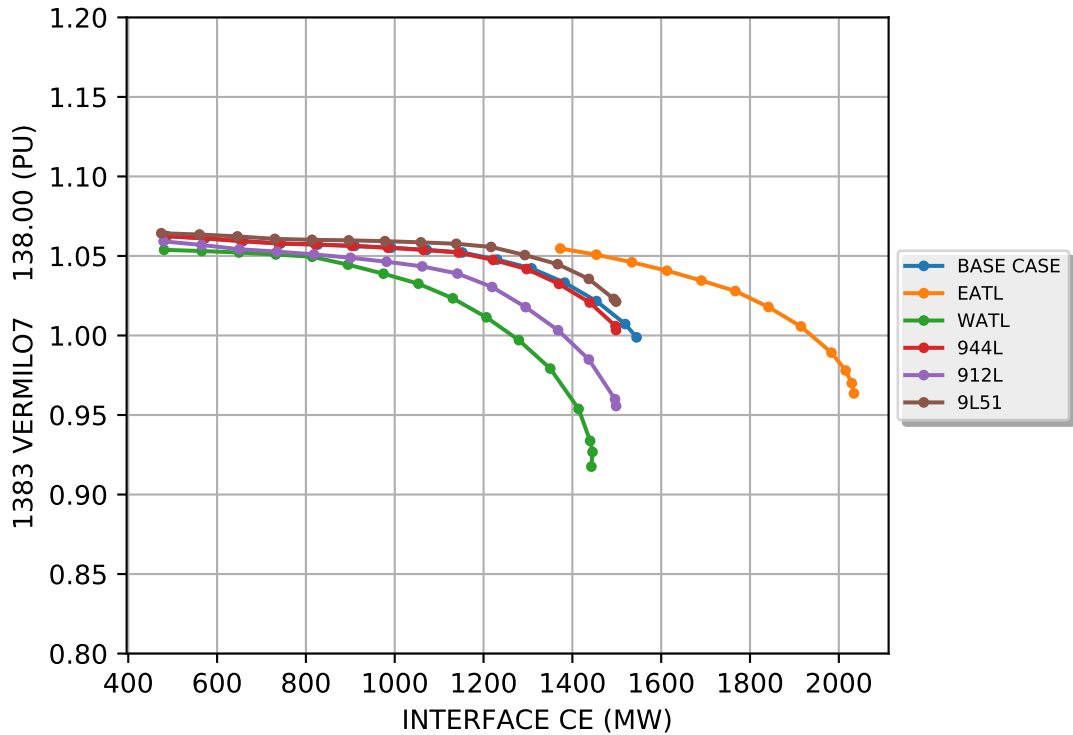


Figure: E-2-204

Case: M1, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 48.2%

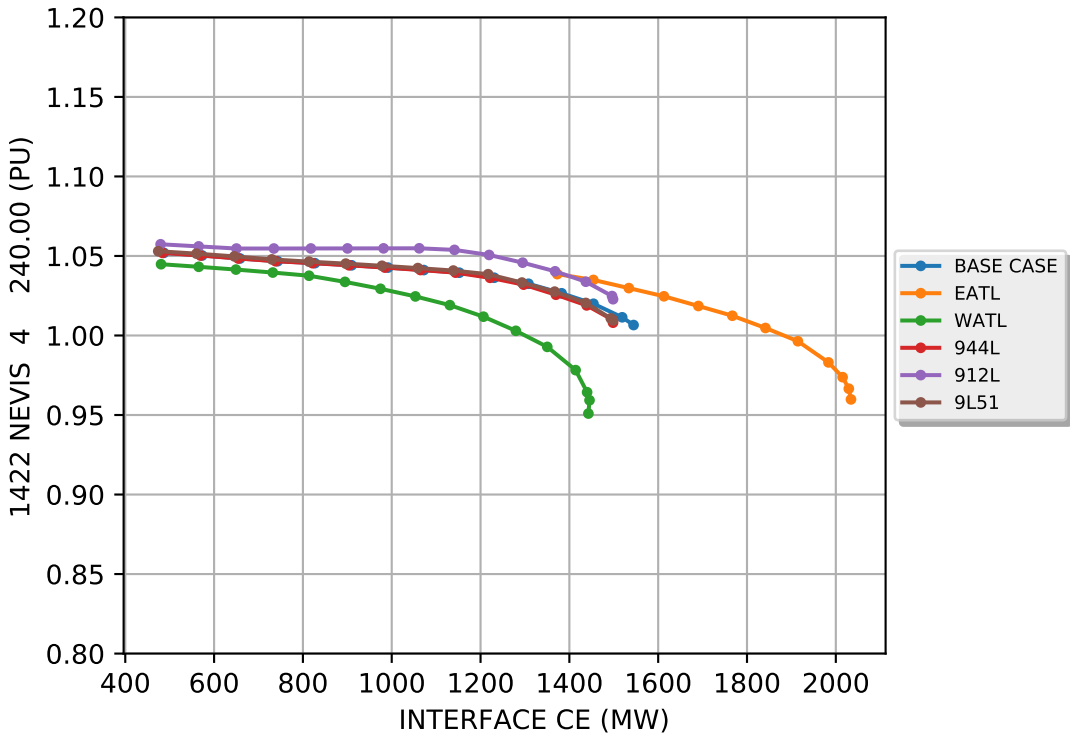


Figure: E-2-205

Case: H3, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 33.5%

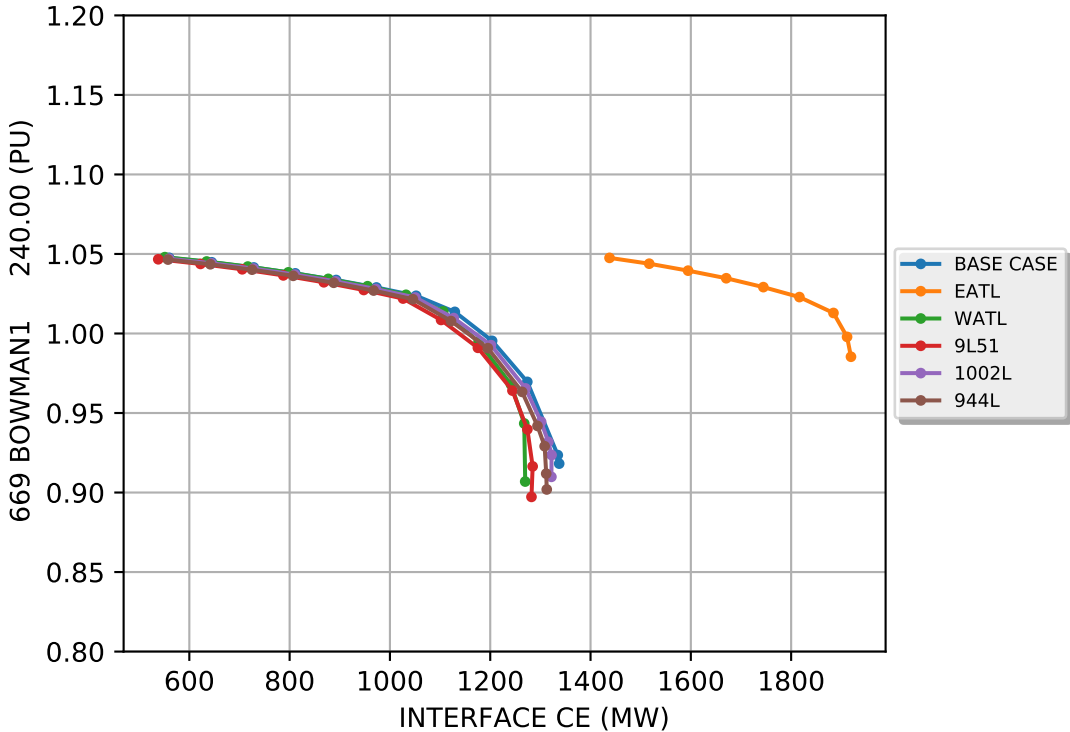


Figure: E-2-206

Case: H3, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 33.5%

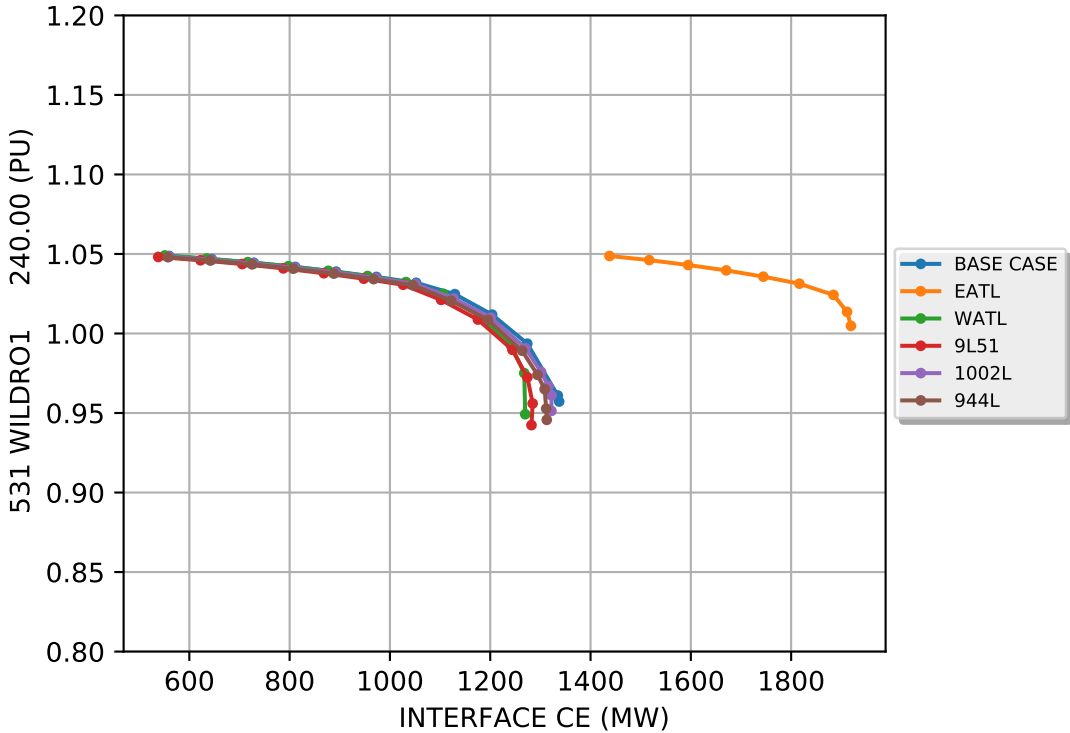


Figure: E-2-207

Case: H3, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 33.5%

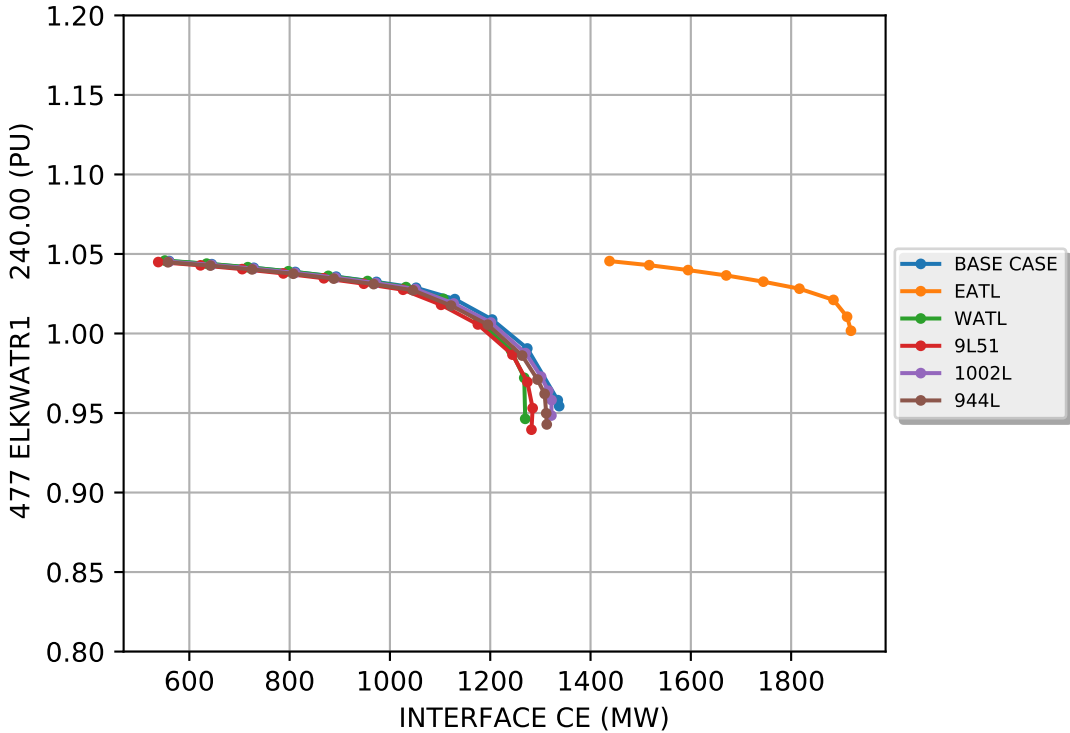


Figure: E-2-208

Case: H3, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 33.5%

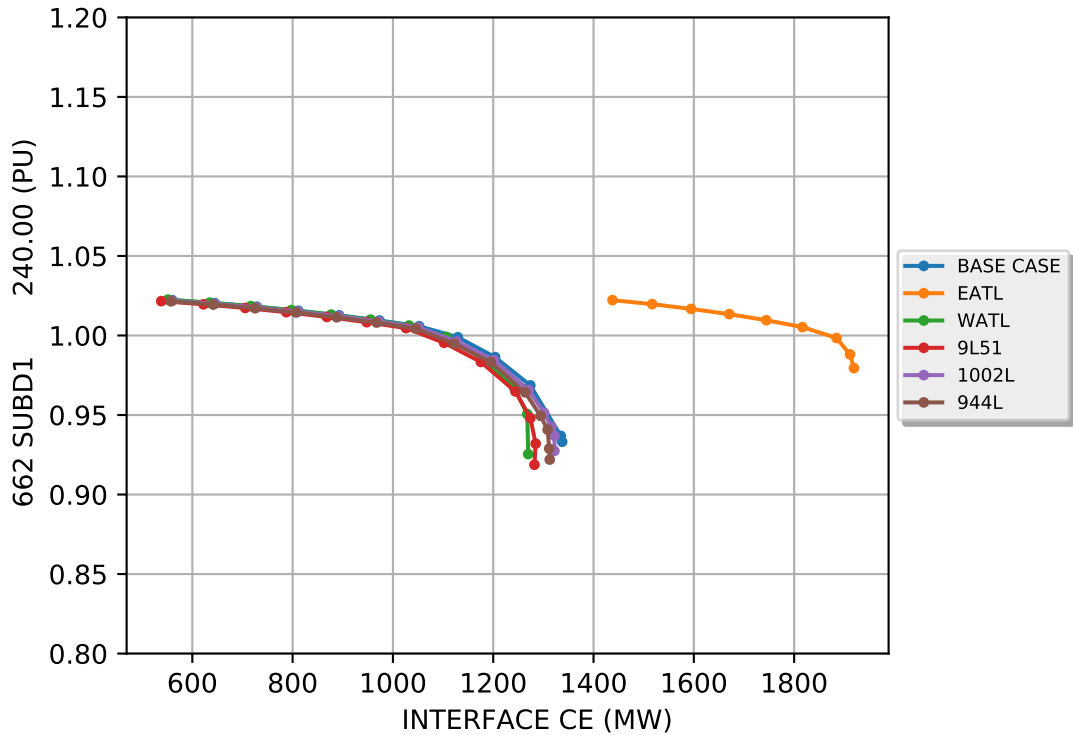


Figure: E-2-209

Case: H3, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 33.5%

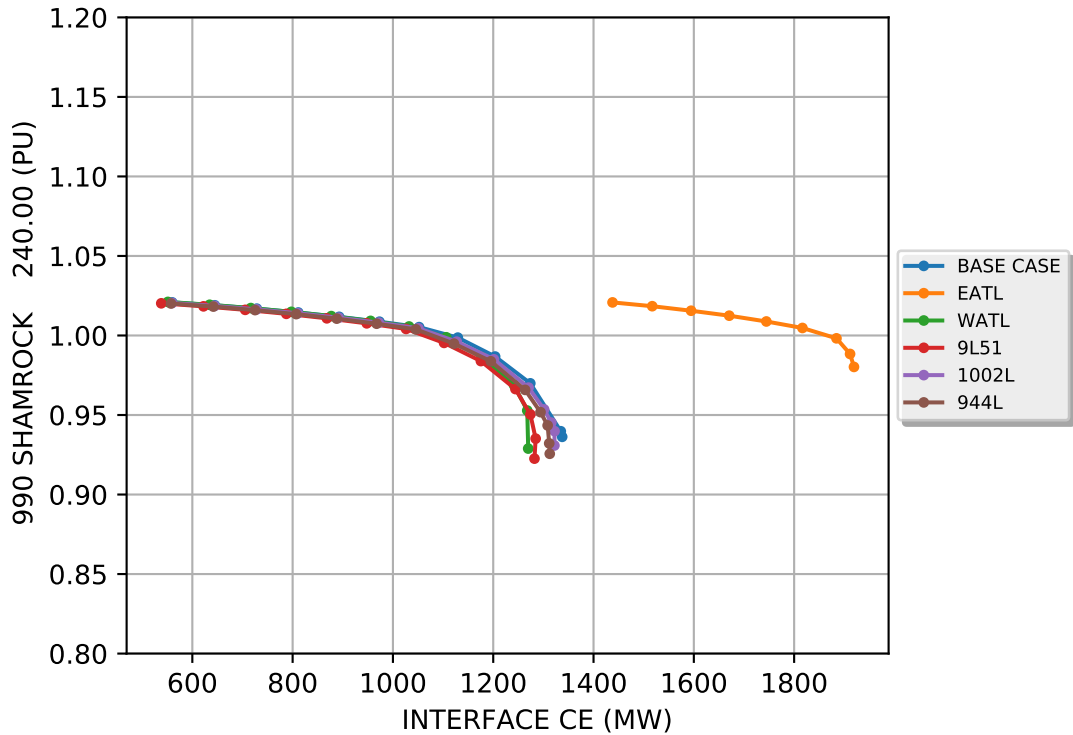


Figure: E-2-210

Case: H3, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 33.5%

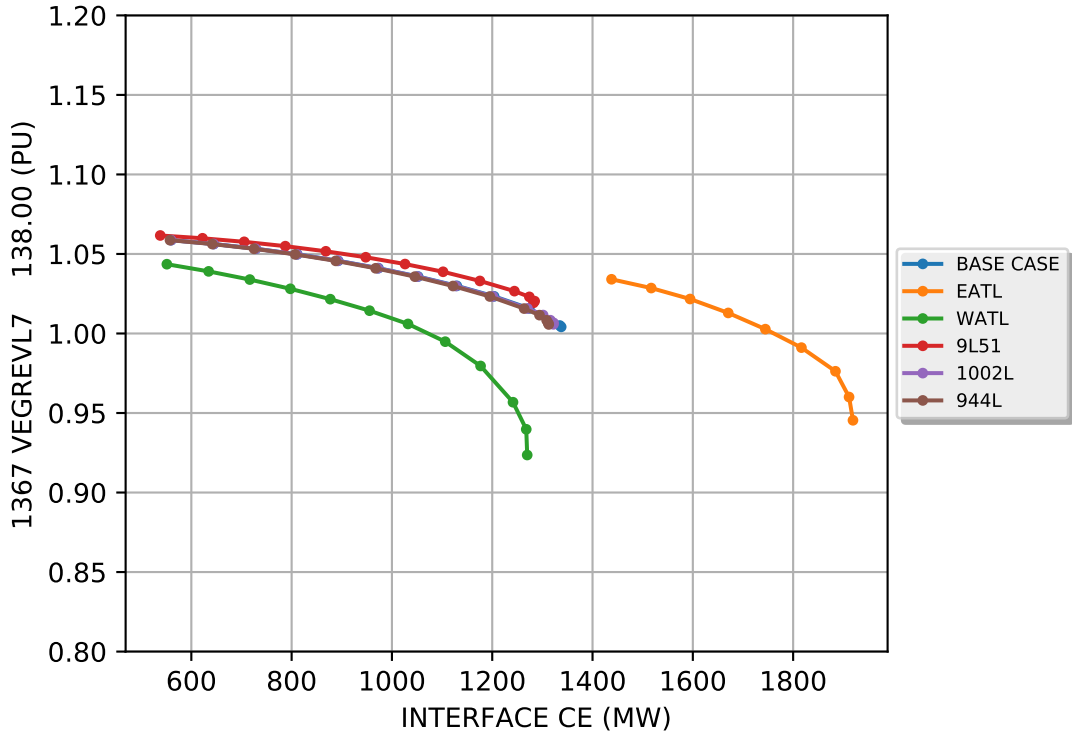


Figure: E-2-211

Case: H3, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 33.5%

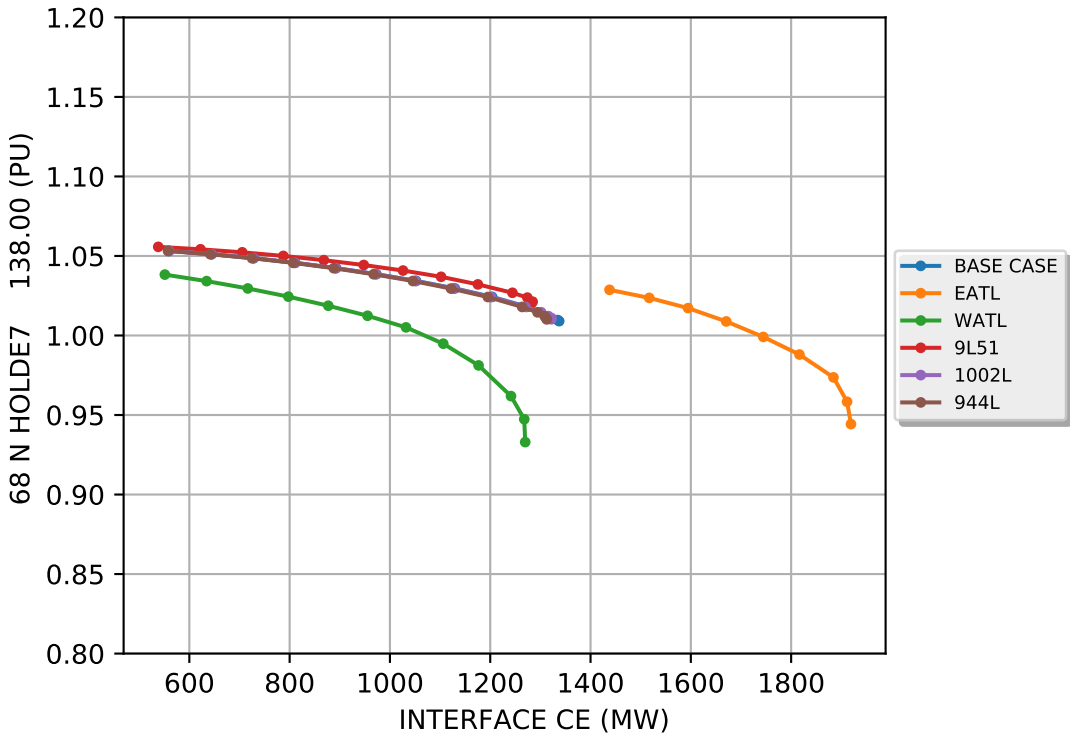


Figure: E-2-212

Case: H3, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 33.5%

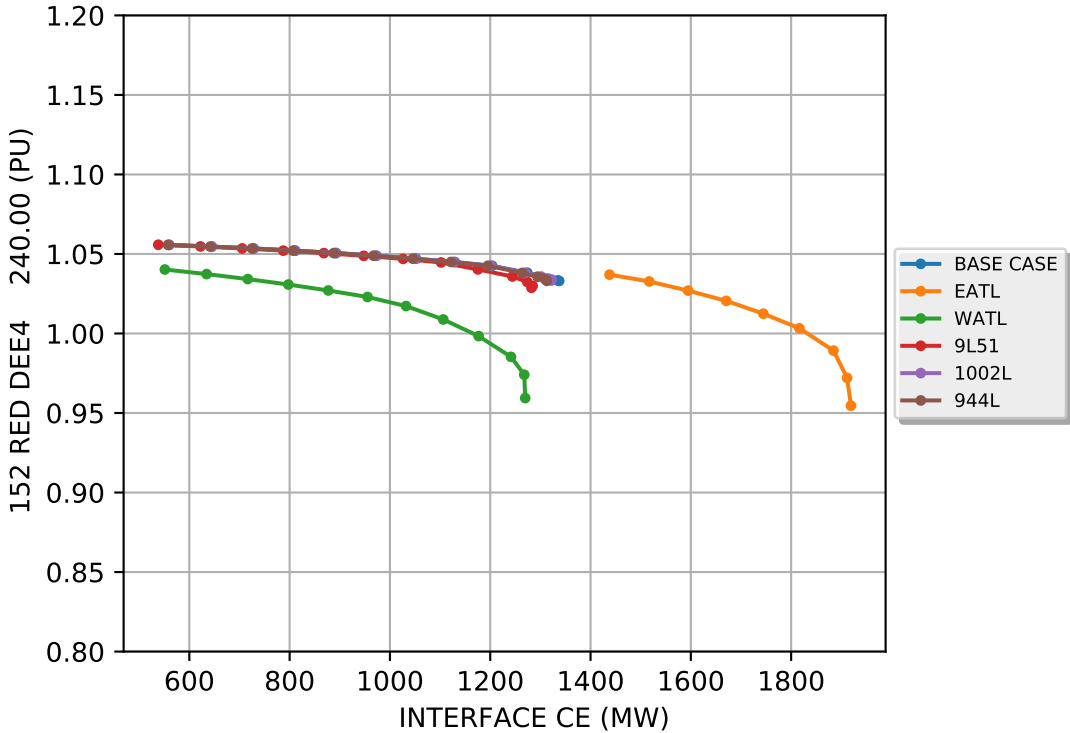


Figure: E-2-213

Case: H3, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 33.5%

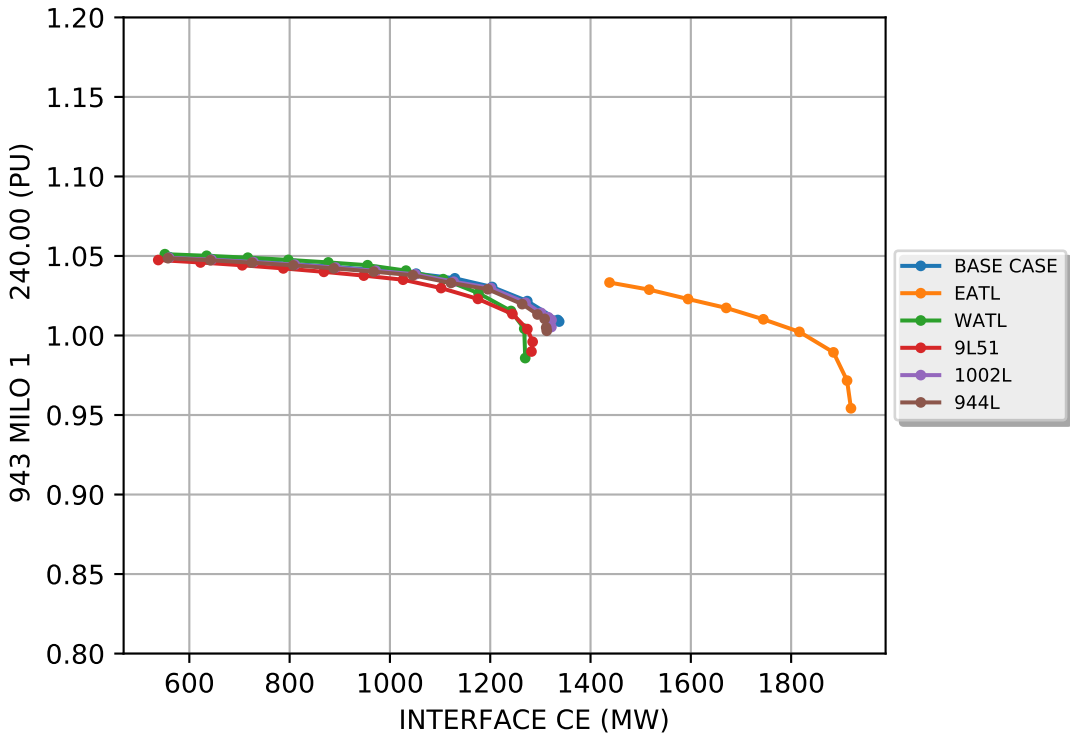


Figure: E-2-214

Case: H3, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 33.5%

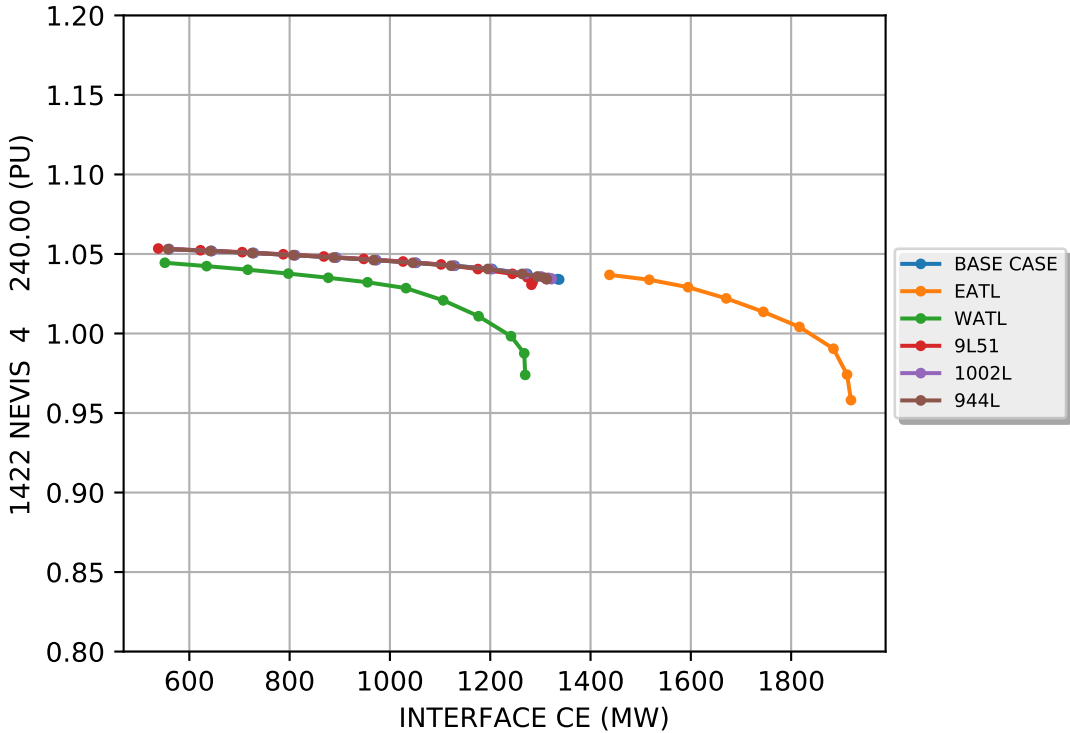


Figure: E-2-215

Case: H3, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 33.5%

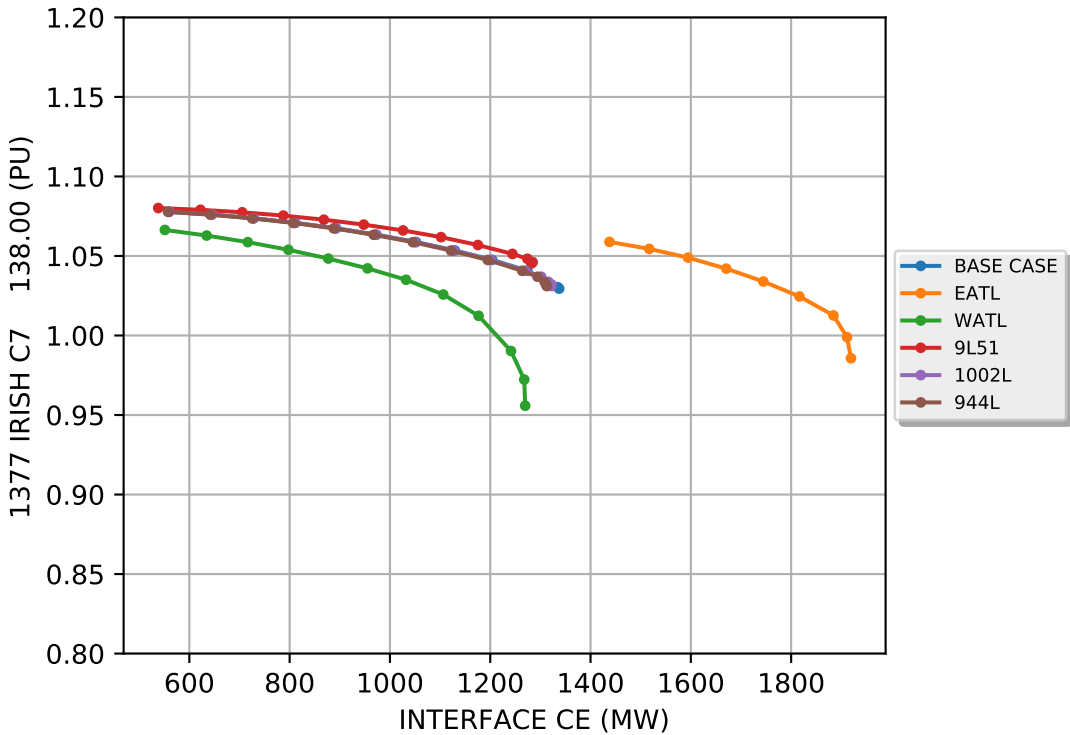


Figure: E-2-216

Case: M5, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 26.2%

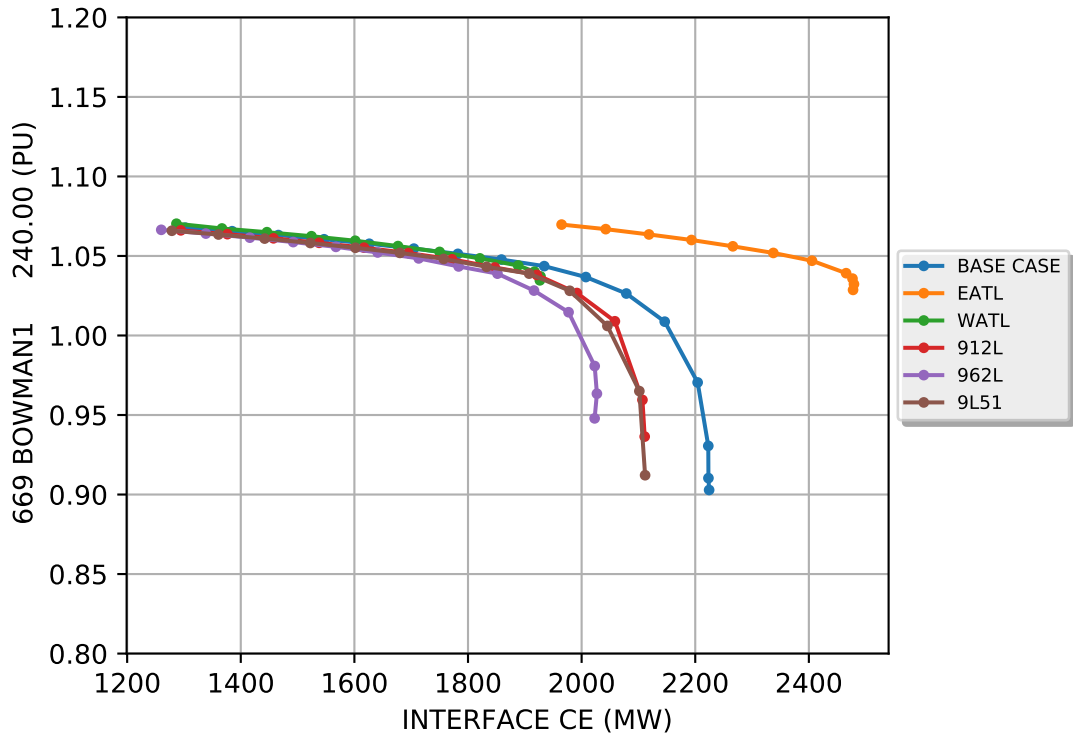


Figure: E-2-217

Case: M5, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 26.2%

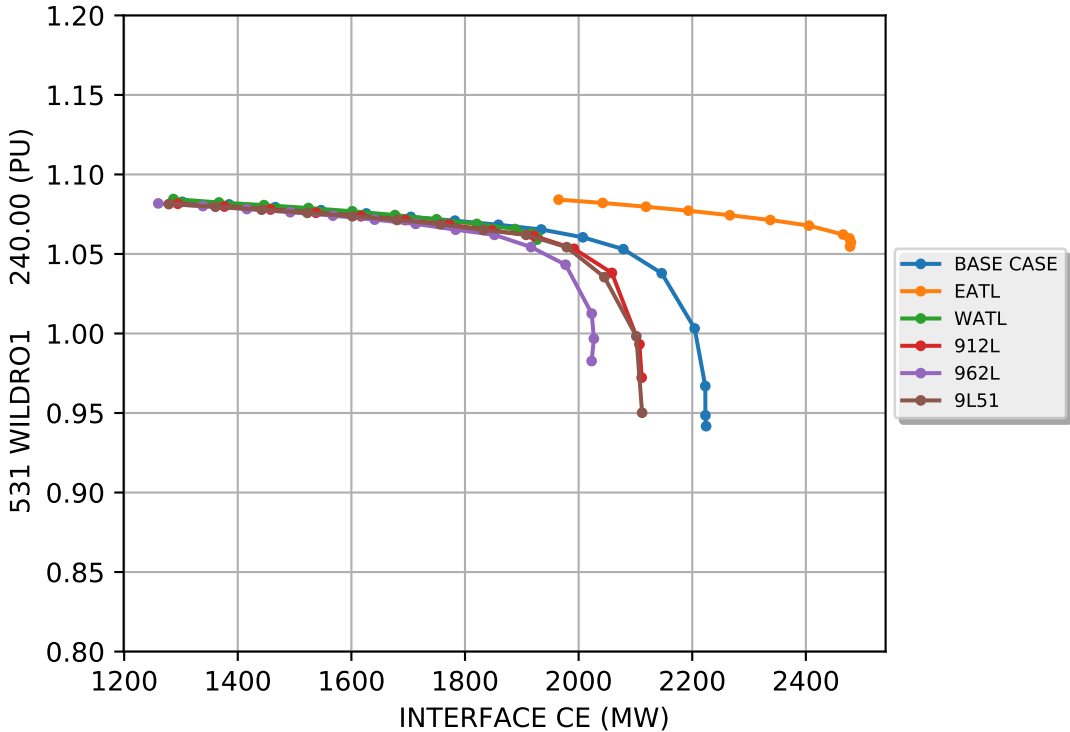


Figure: E-2-218

Case: M5, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 26.2%

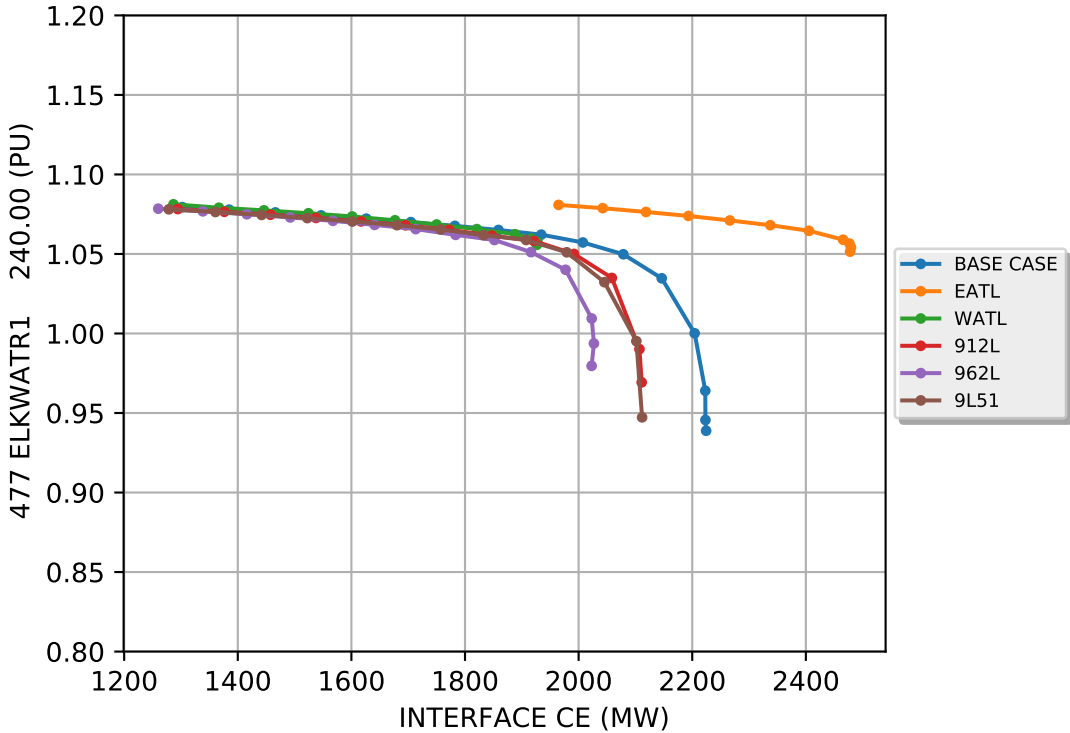


Figure: E-2-219

Case: M5, Option: BOTH

Min Voltage: 0.82 PU, Min Margin: 26.2%

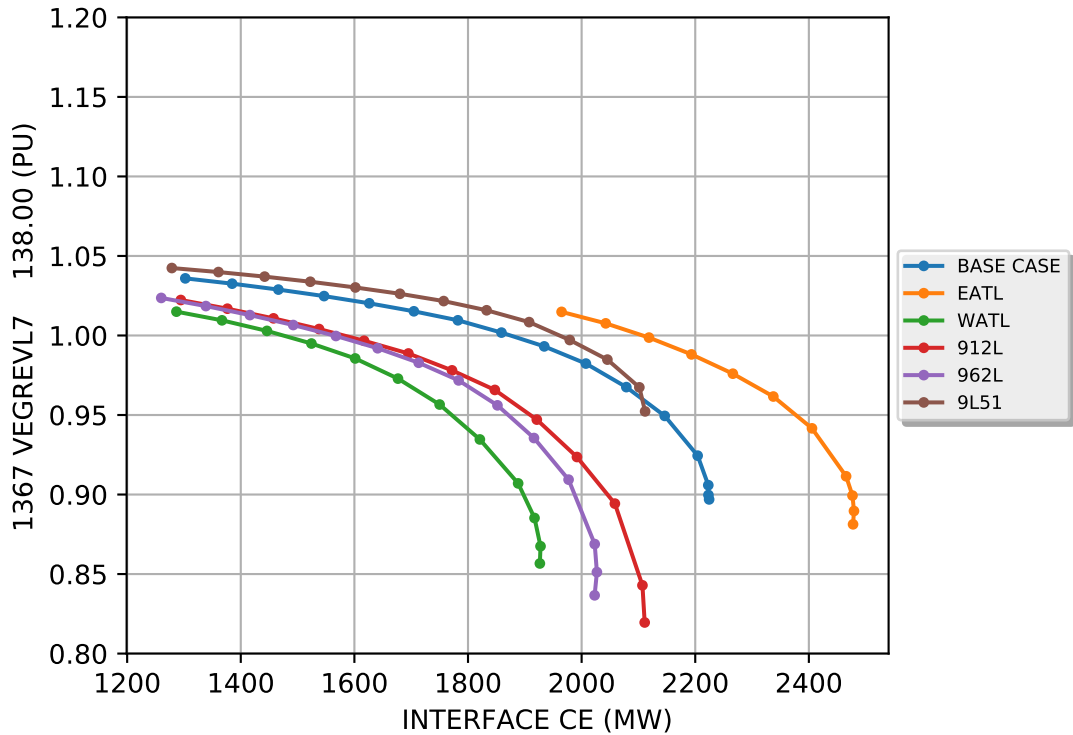


Figure: E-2-220

Case: M5, Option: BOTH

Min Voltage: 0.84 PU, Min Margin: 26.2%

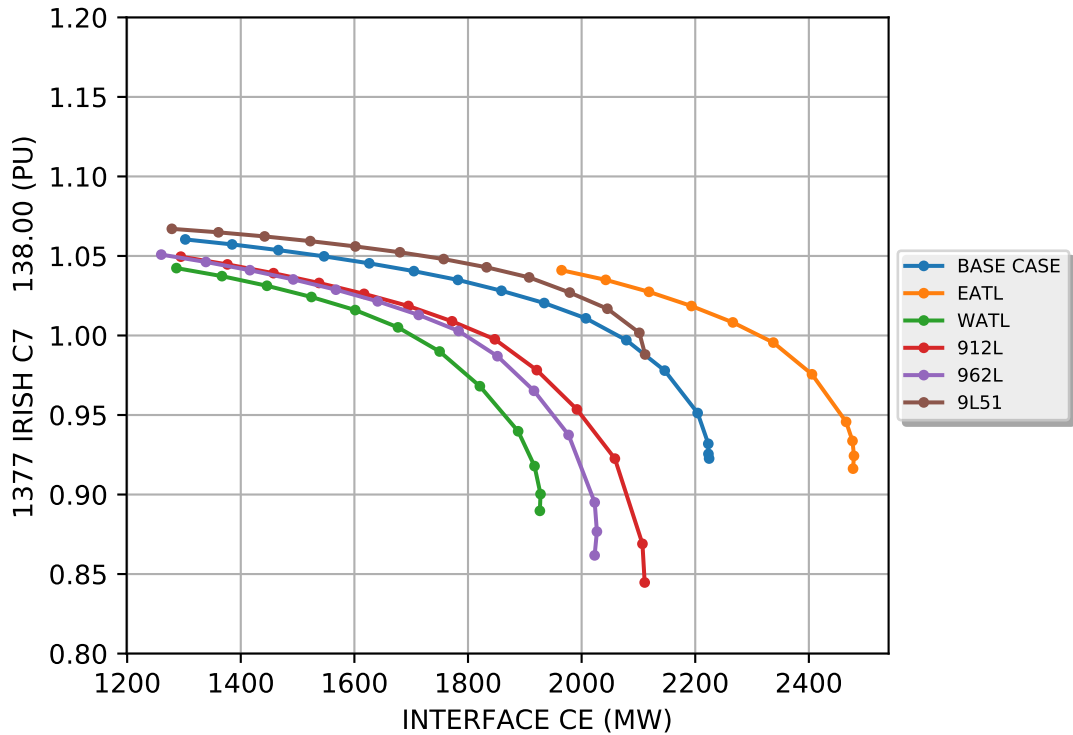


Figure: E-2-221

Case: M5, Option: BOTH

Min Voltage: 0.84 PU, Min Margin: 26.2%

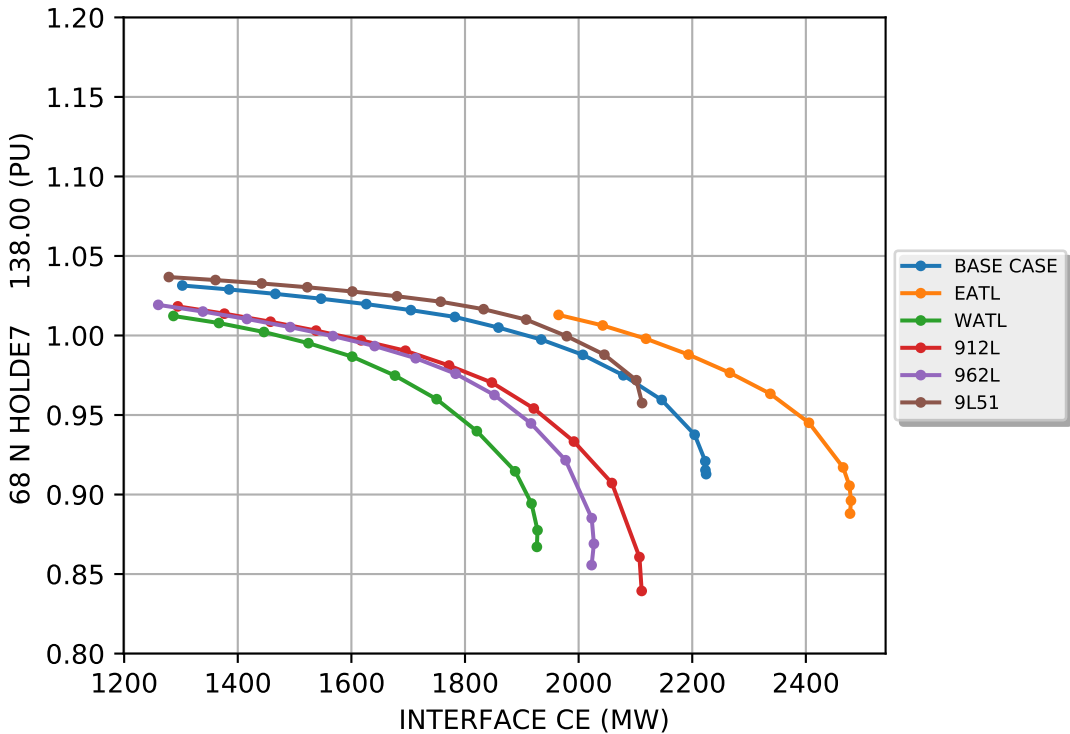


Figure: E-2-222

Case: M5, Option: BOTH

Min Voltage: 0.89 PU, Min Margin: 26.2%

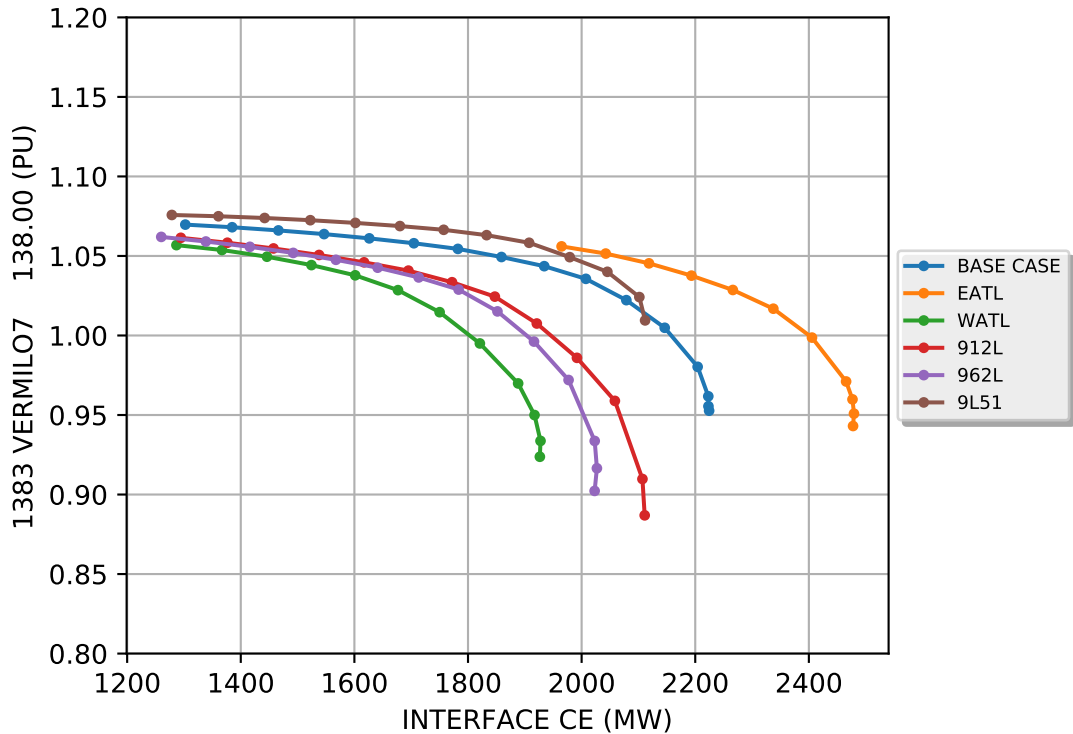


Figure: E-2-223

Case: M5, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 26.2%

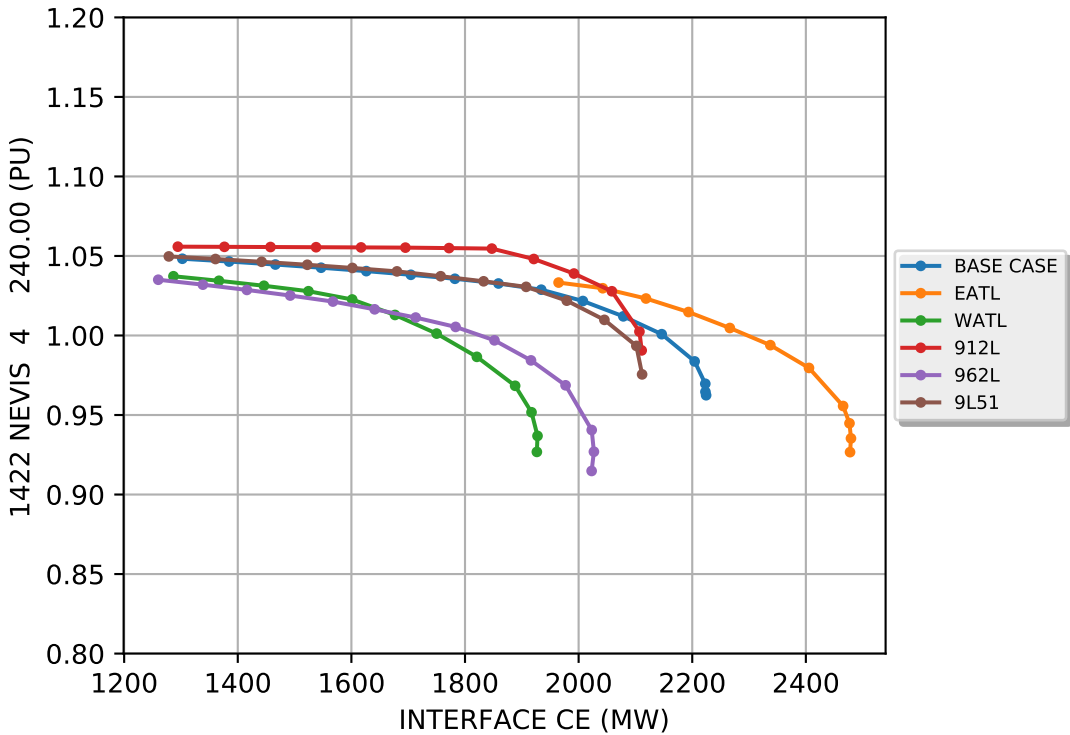


Figure: E-2-224

Case: M5, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 26.2%

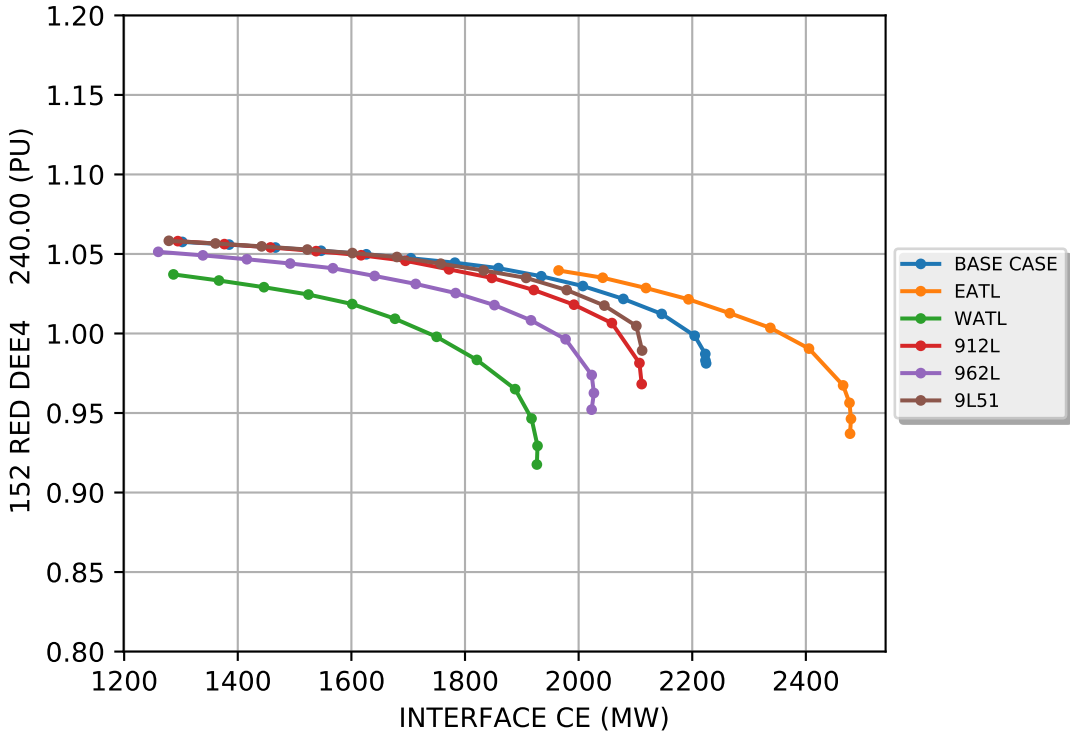


Figure: E-2-225

Case: M5, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 26.2%

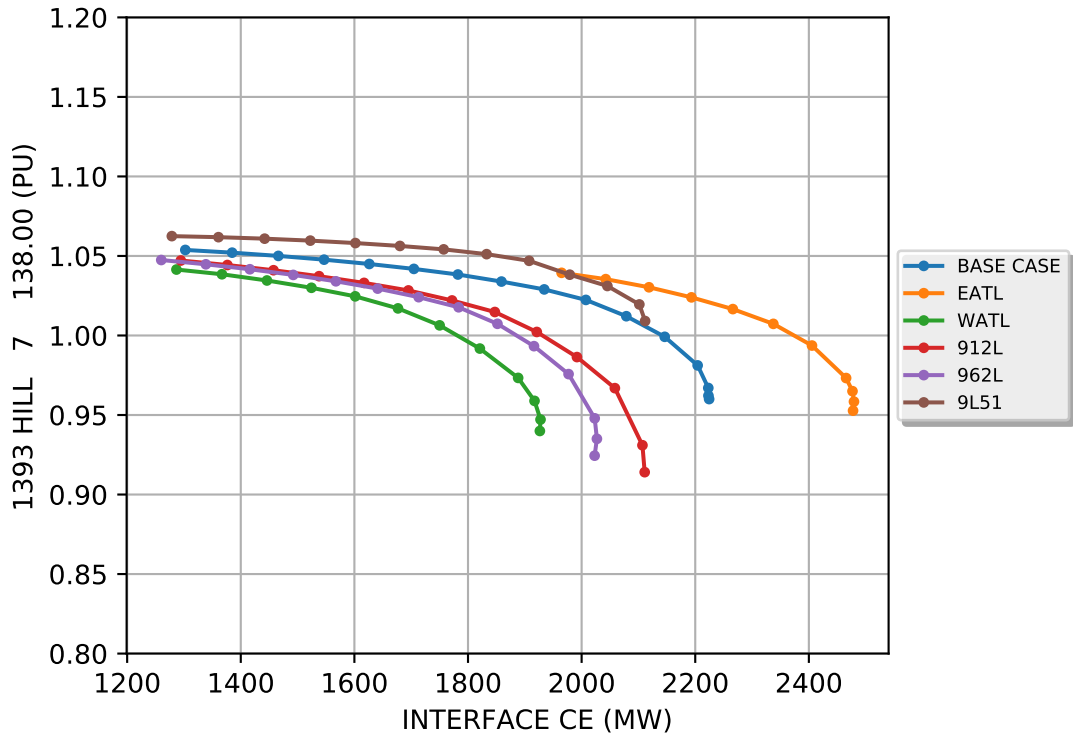


Figure: E-2-226

Case: M5, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 26.2%

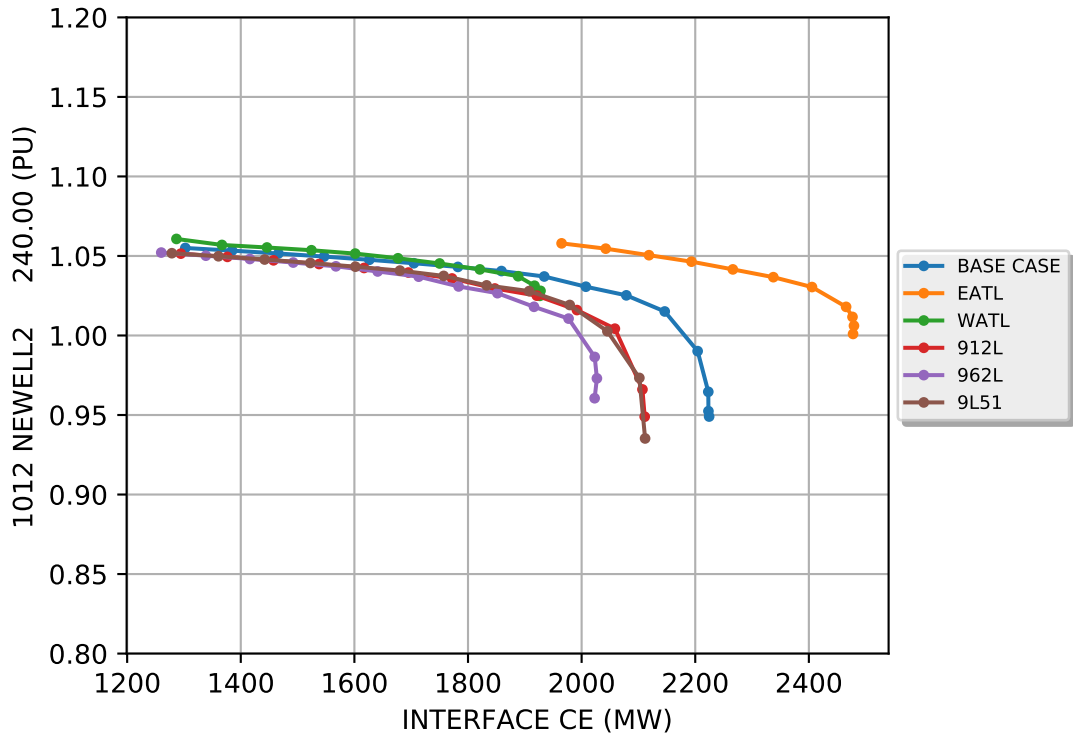


Figure: E-2-227

Case: M5, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 26.2%

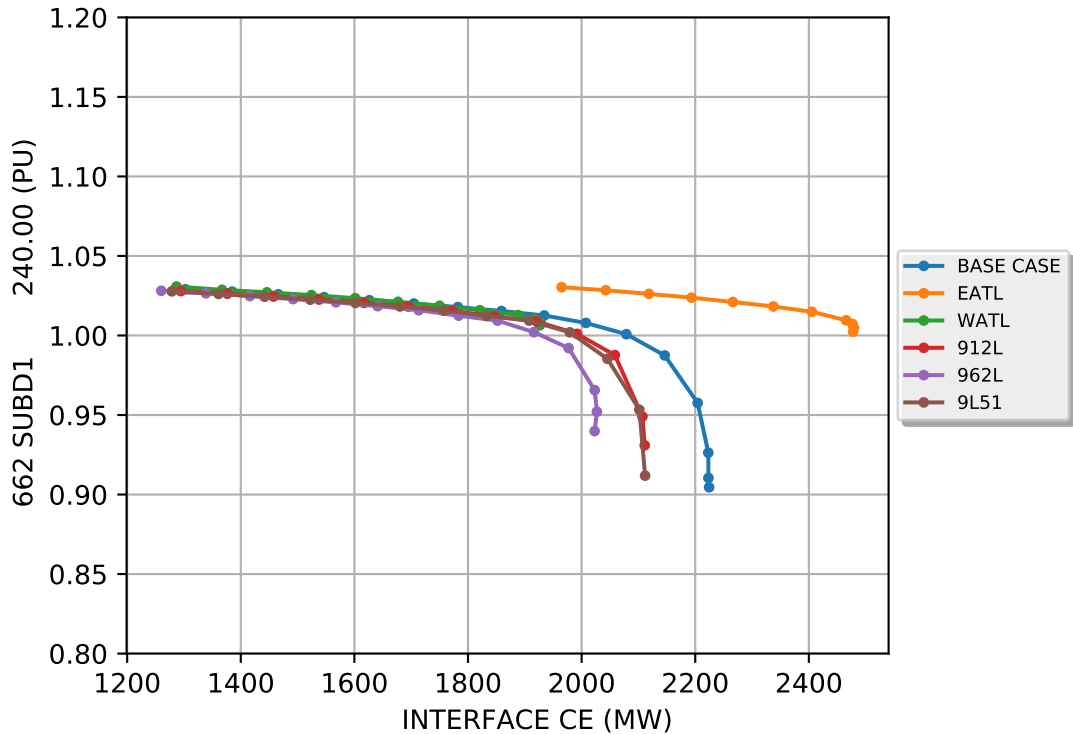


Figure: E-2-228

Case: M2, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 38.6%

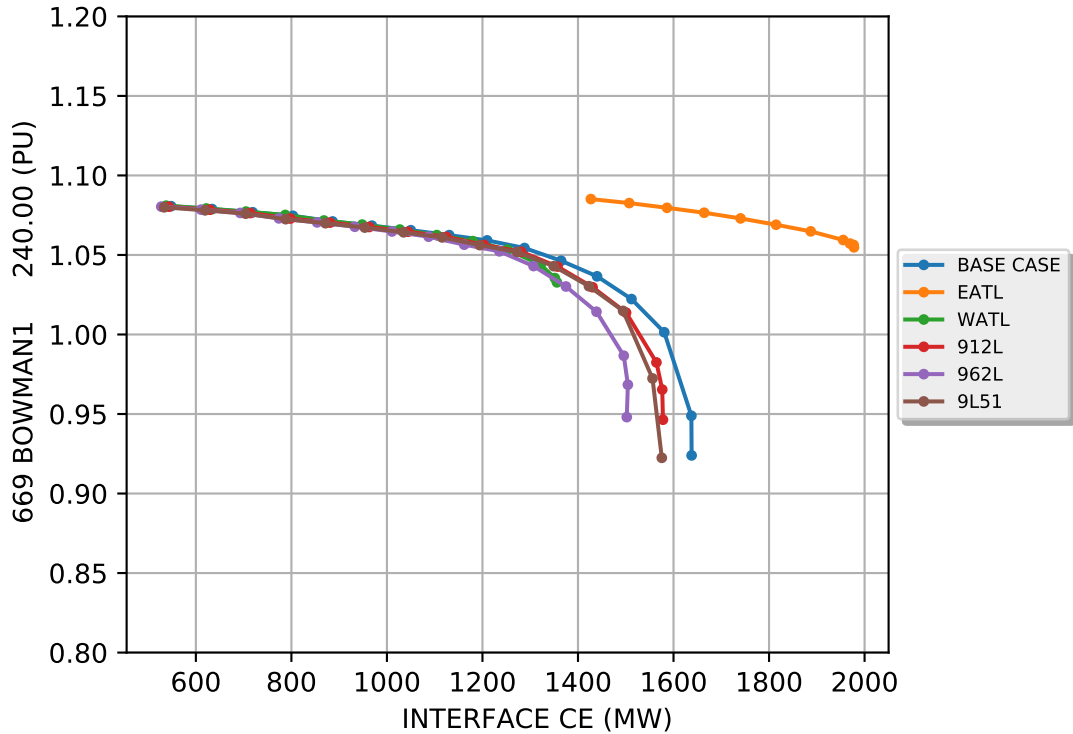


Figure: E-2-229

Case: M2, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 38.6%

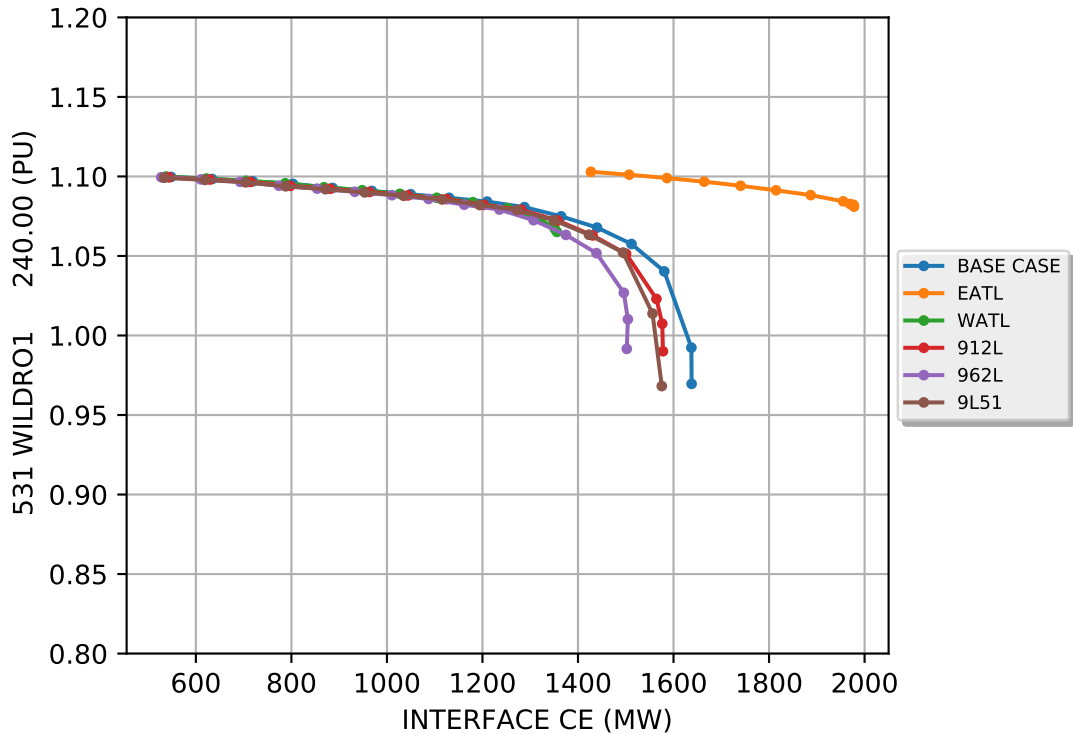


Figure: E-2-230

Case: M2, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 38.6%

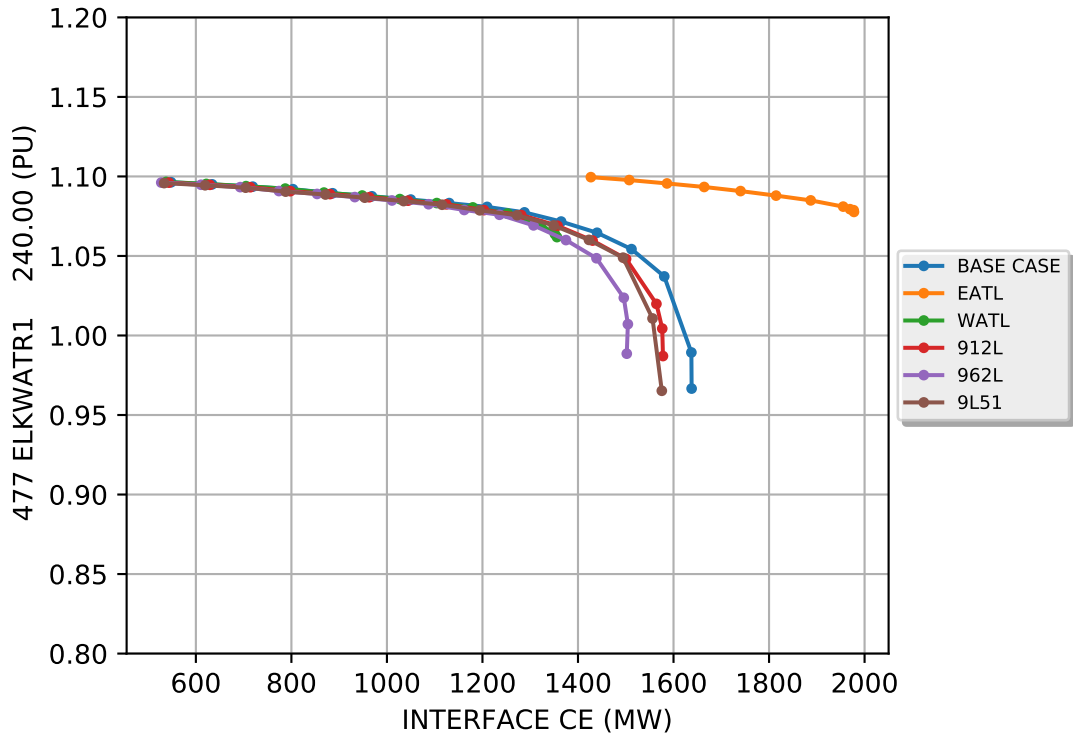


Figure: E-2-231

Case: M2, Option: BOTH

Min Voltage: 0.86 PU, Min Margin: 38.6%

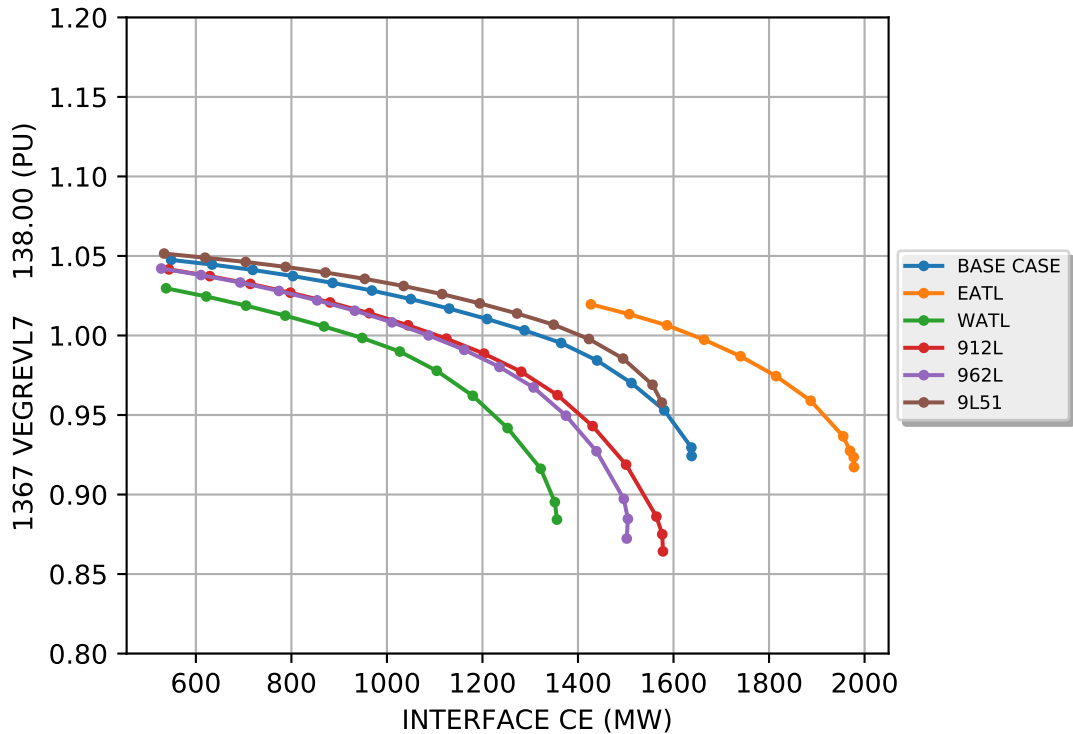


Figure: E-2-232

Case: M2, Option: BOTH

Min Voltage: 0.89 PU, Min Margin: 38.6%

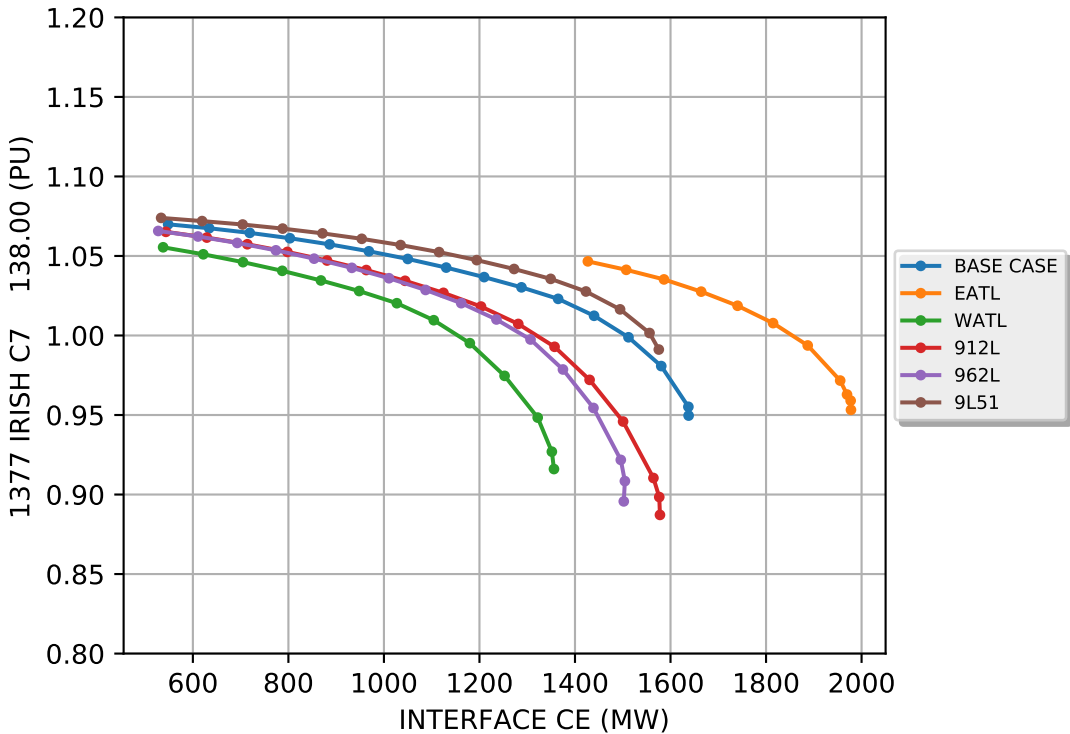


Figure: E-2-233

Case: M2, Option: BOTH

Min Voltage: 0.88 PU, Min Margin: 38.6%

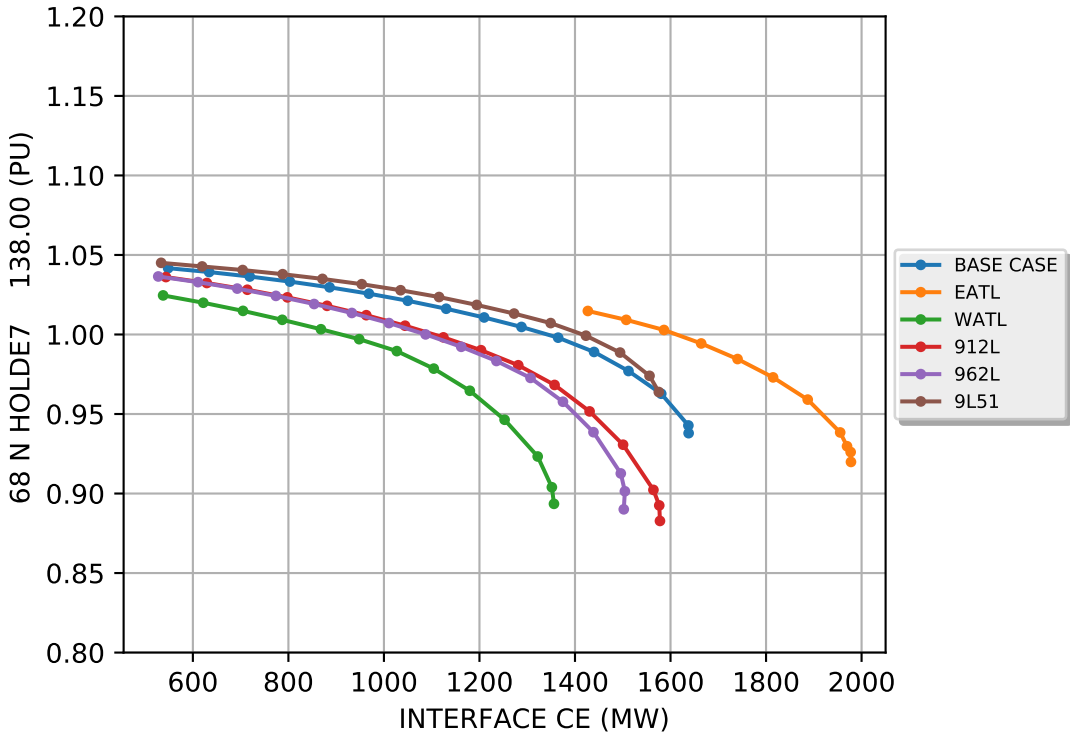


Figure: E-2-234

Case: M2, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 38.6%

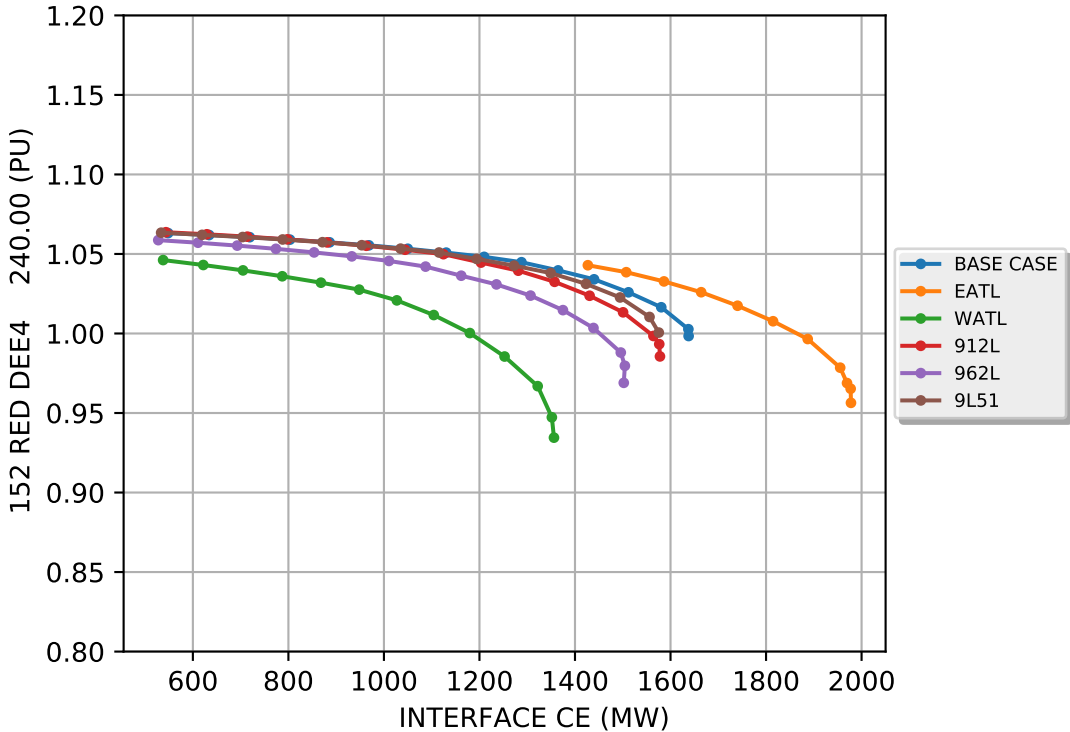


Figure: E-2-235

Case: M2, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 38.6%

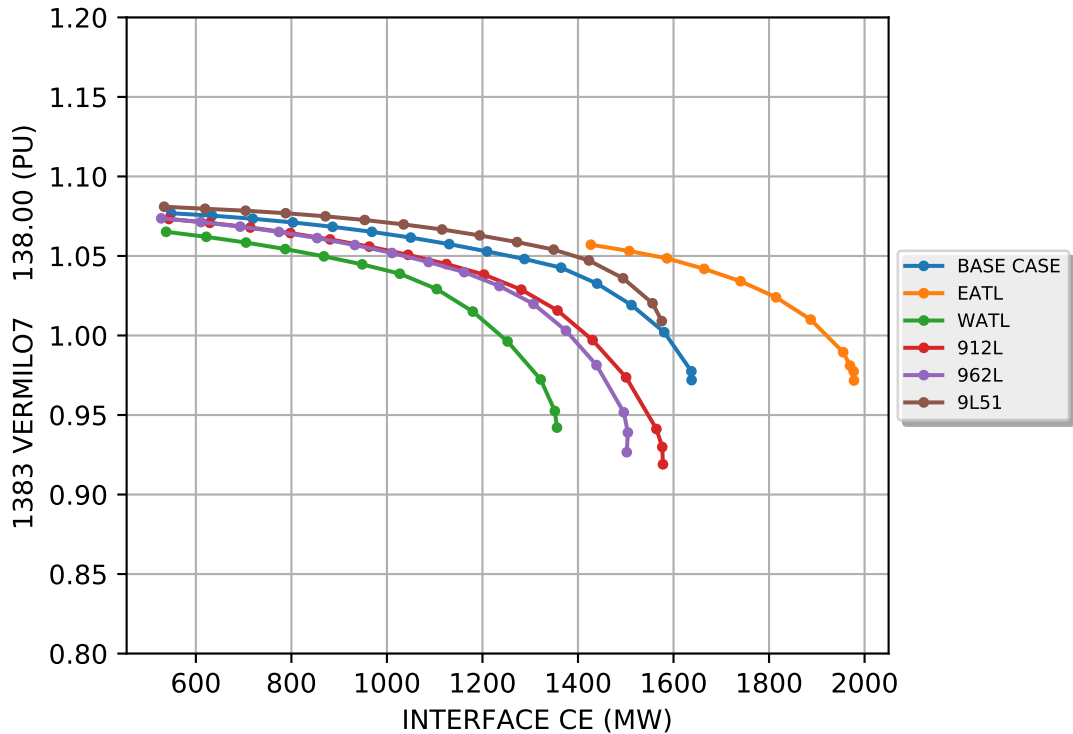


Figure: E-2-236

Case: M2, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 38.6%

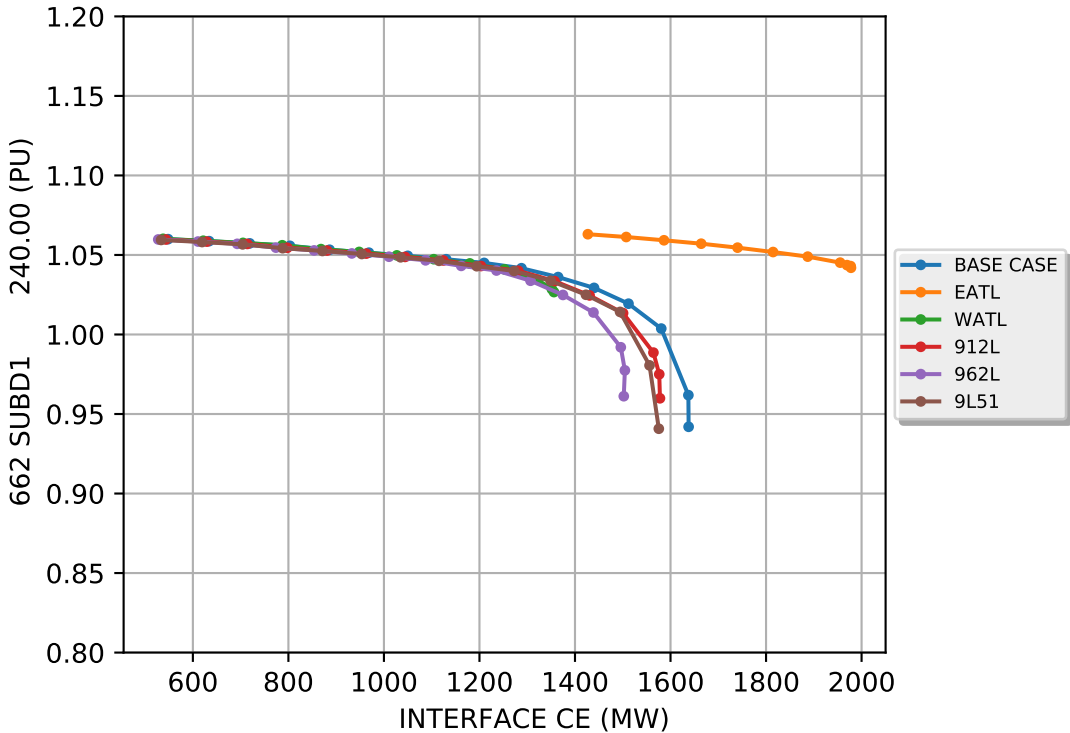


Figure: E-2-237

Case: M2, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 38.6%

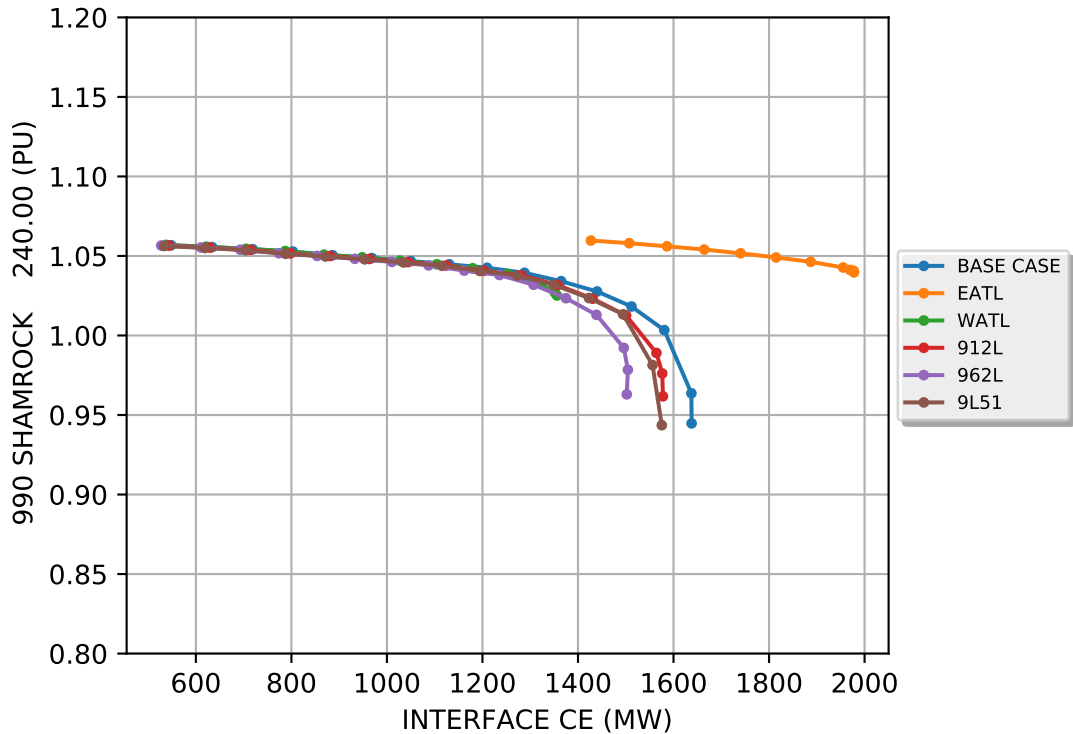


Figure: E-2-238

Case: M3, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 73.4%

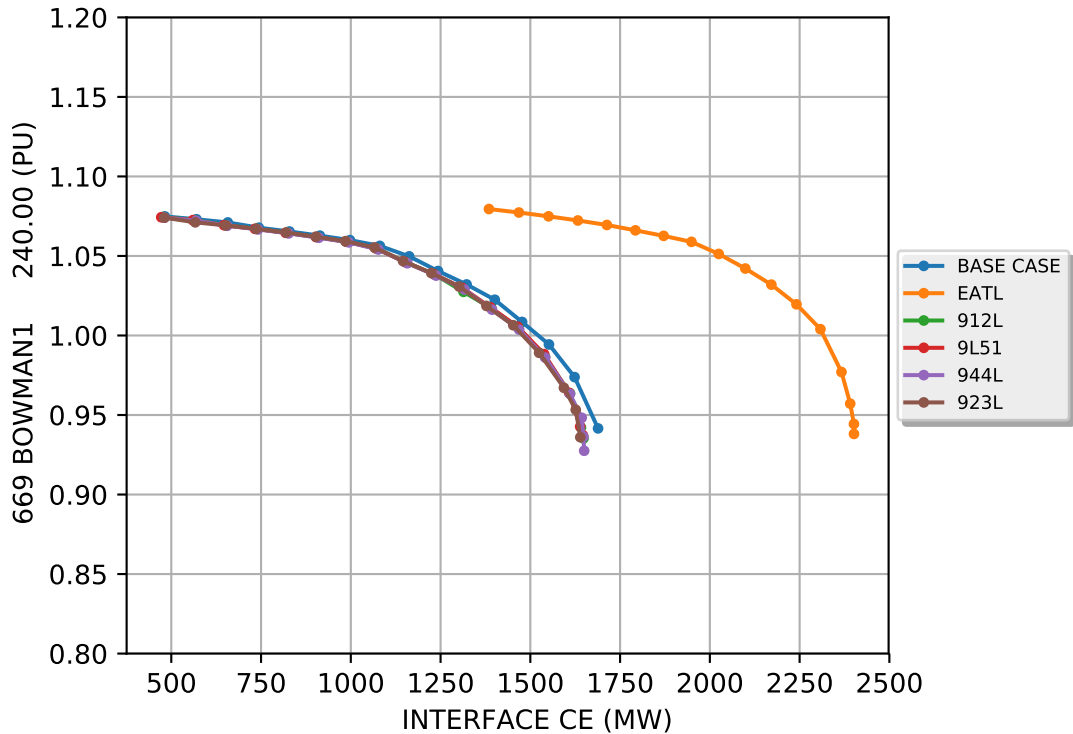


Figure: E-2-239

Case: M3, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 73.4%

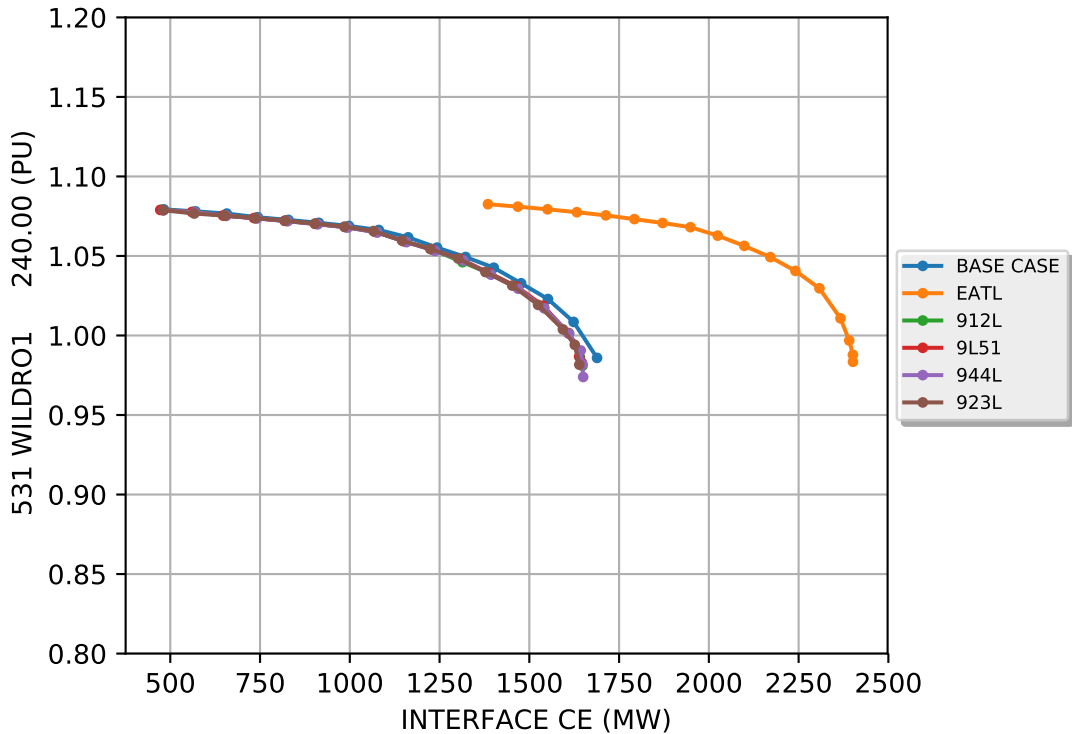


Figure: E-2-240

Case: M3, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 73.4%

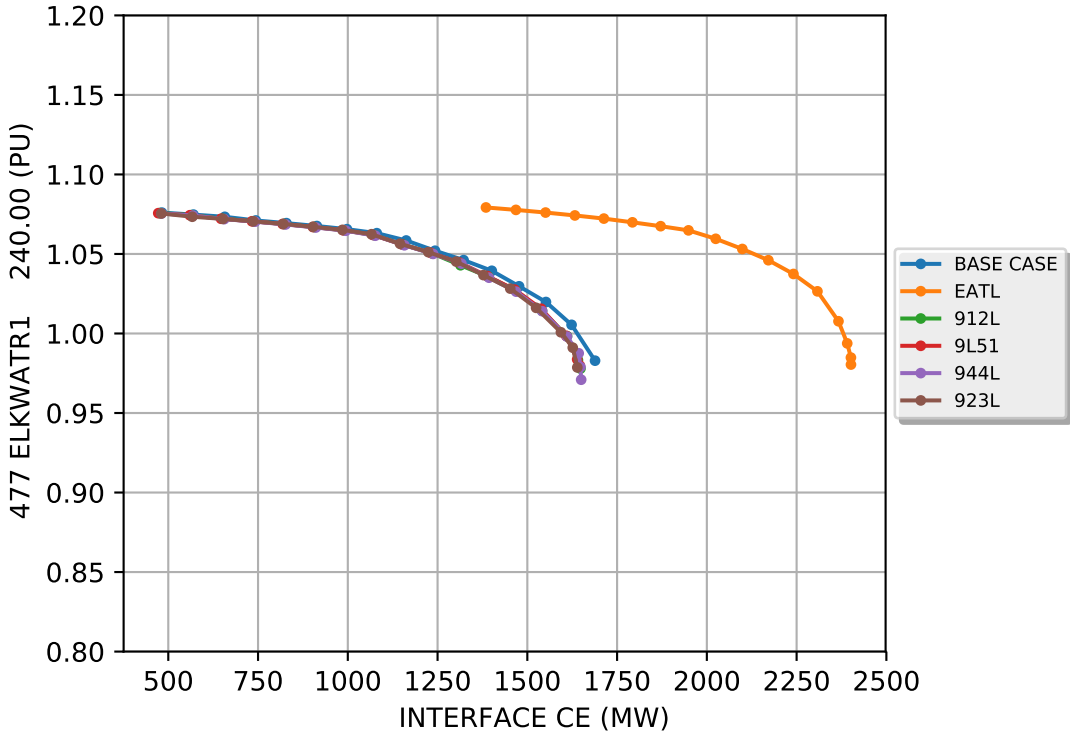


Figure: E-2-241

Case: M3, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 73.4%

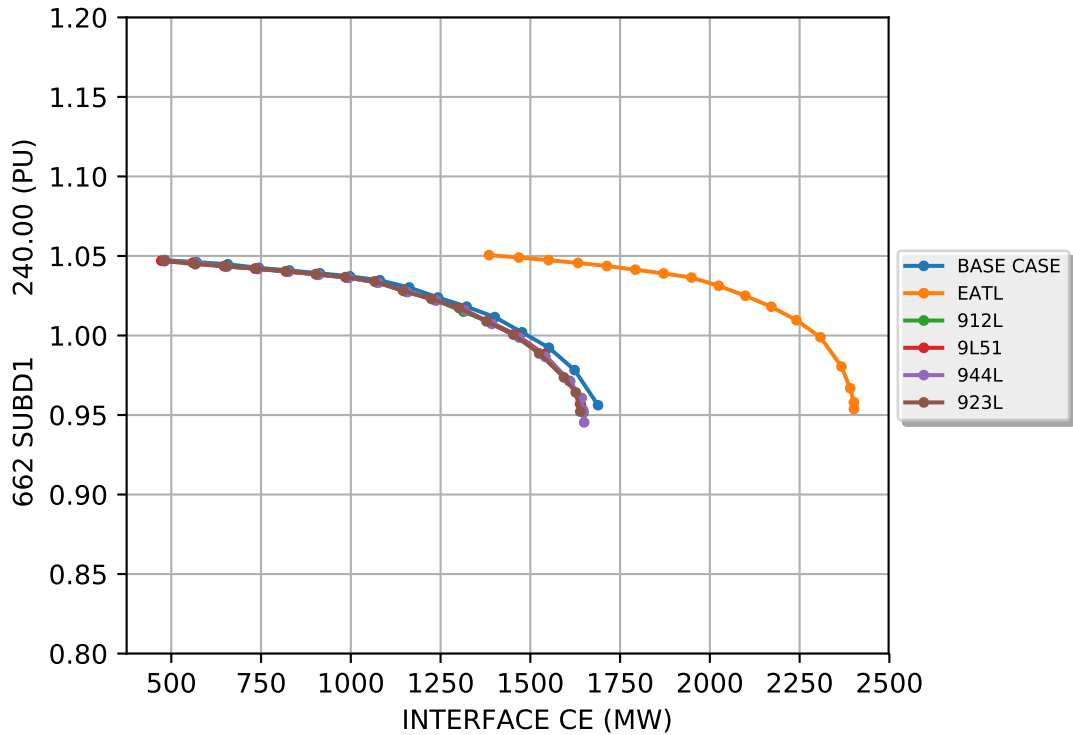


Figure: E-2-242

Case: M3, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 73.4%

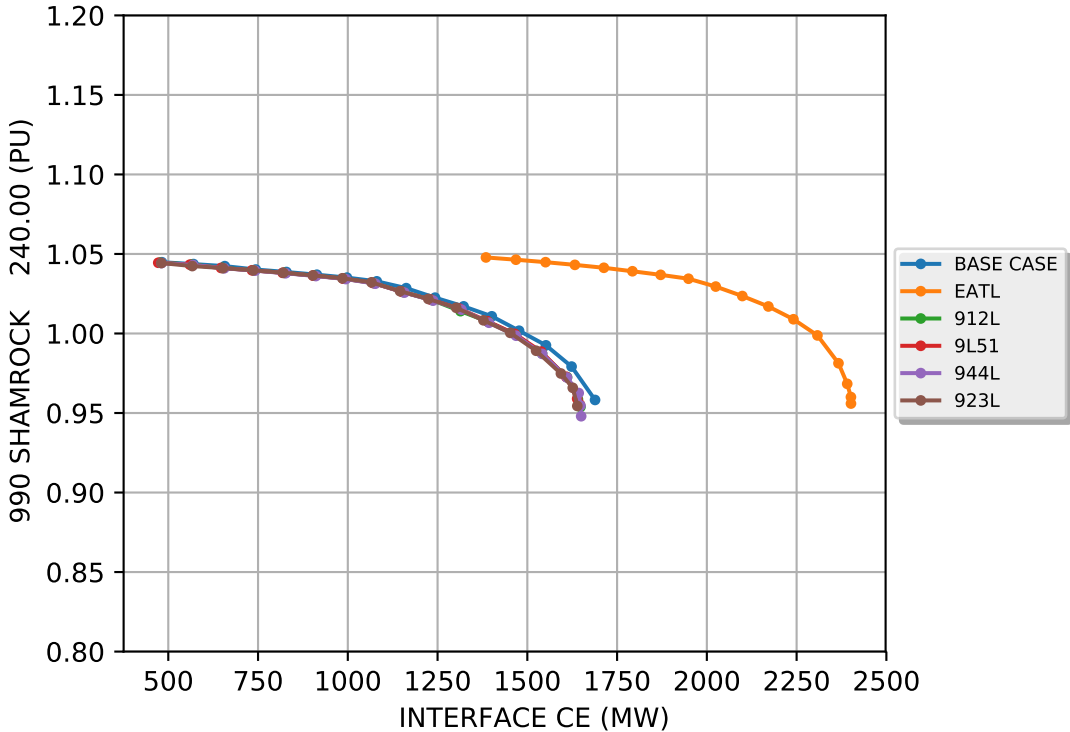


Figure: E-2-243

Case: M3, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 73.4%

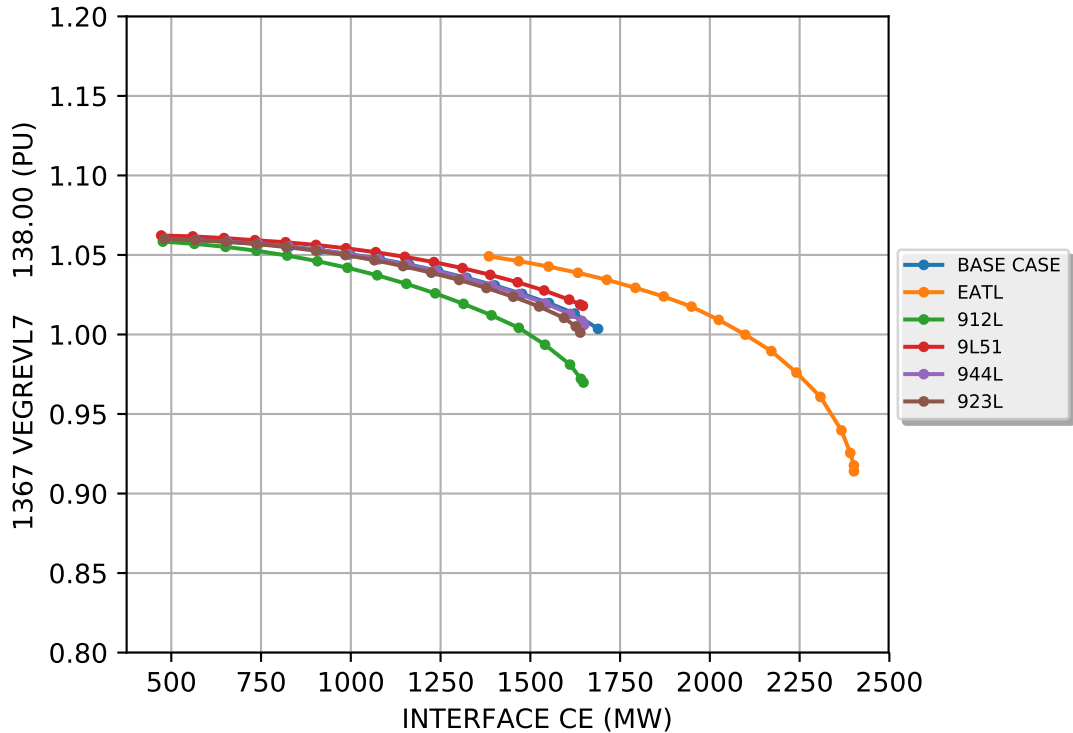


Figure: E-2-244

Case: M3, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 73.4%

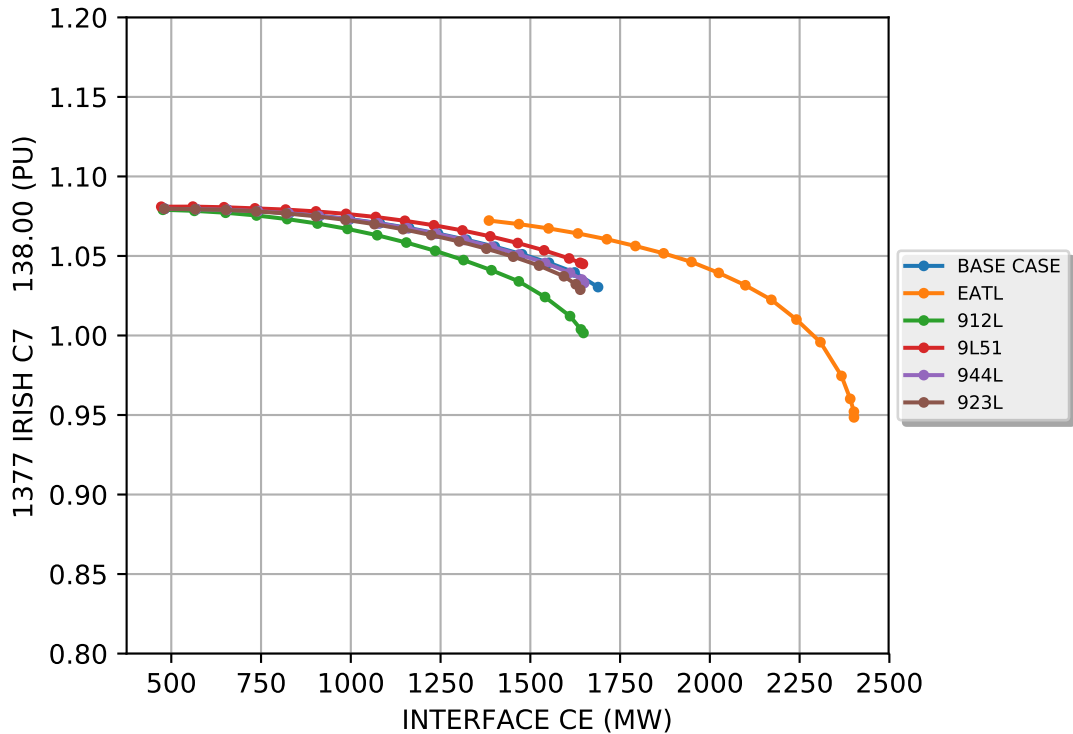


Figure: E-2-245

Case: M3, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 73.4%

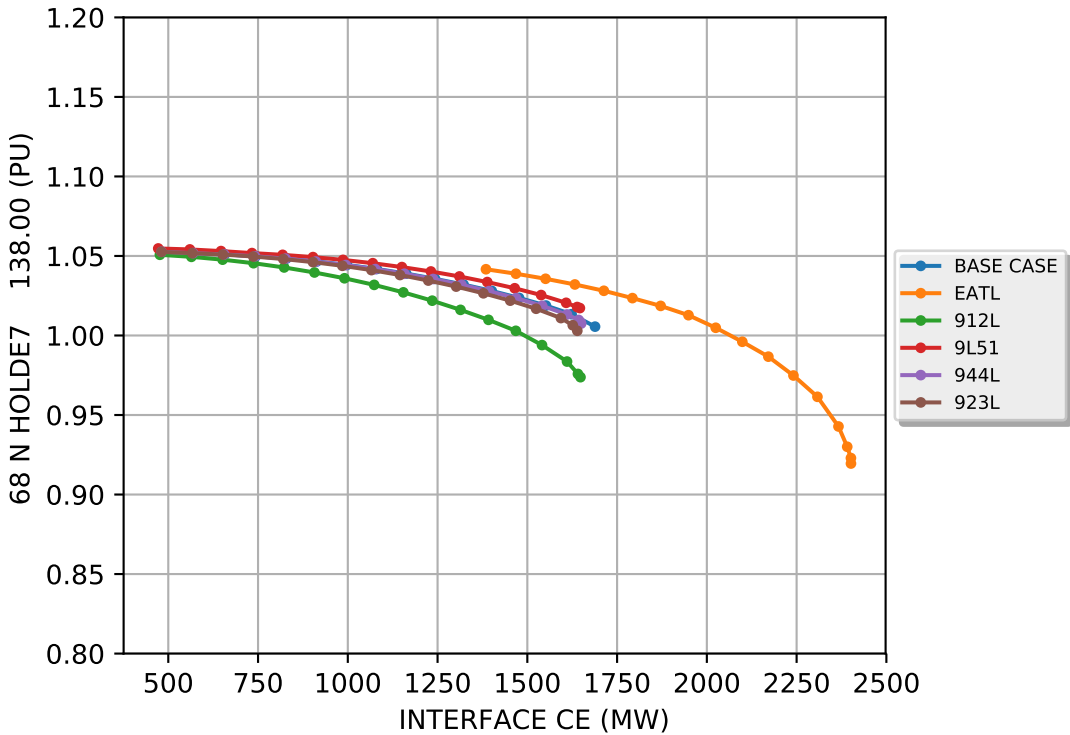


Figure: E-2-246

Case: M3, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 73.4%

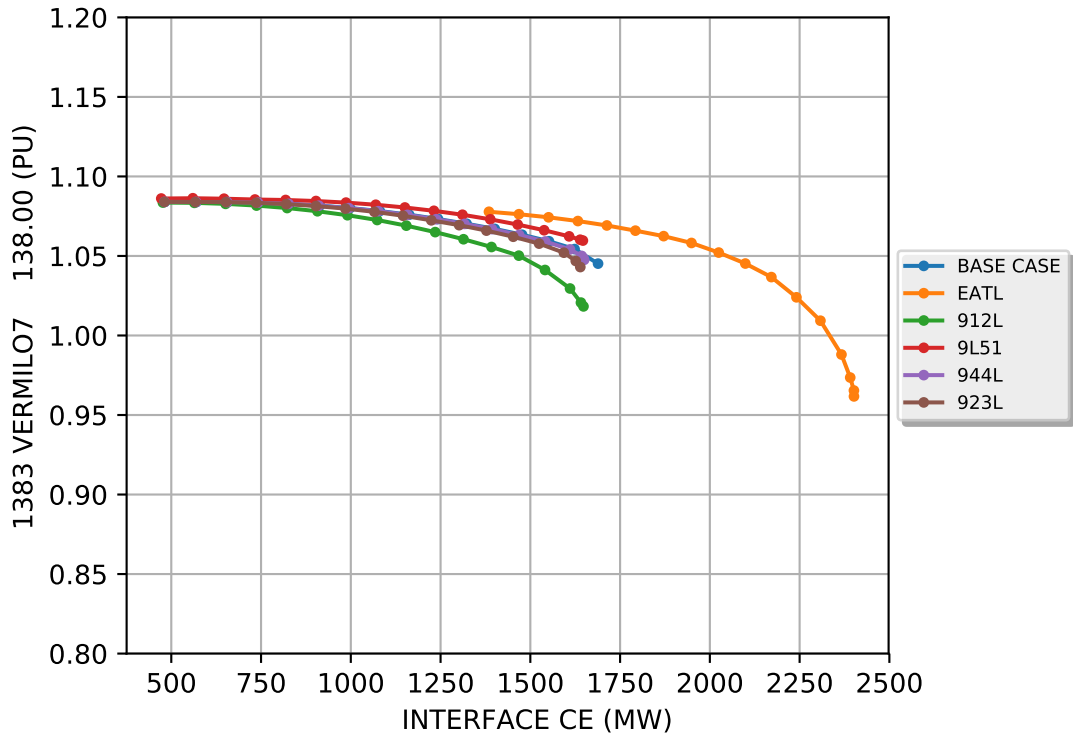


Figure: E-2-247

Case: M11, Option: BOTH

Min Voltage: 0.89 PU, Min Margin: 41.0%

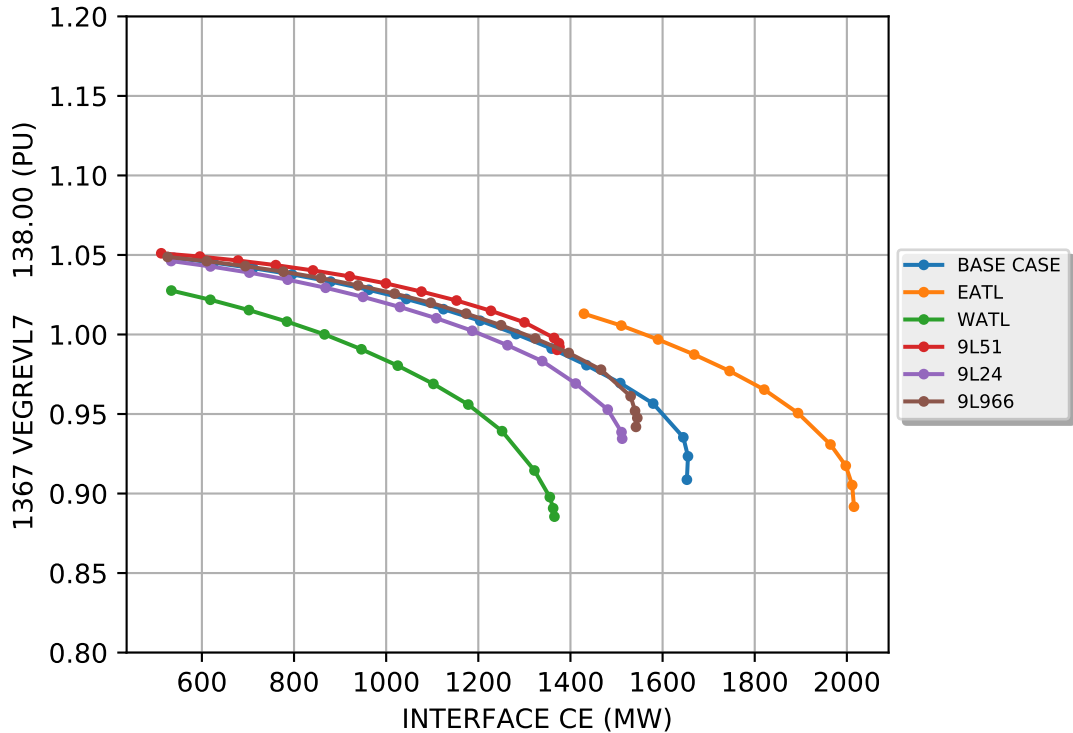


Figure: E-2-248

Case: M11, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 41.0%

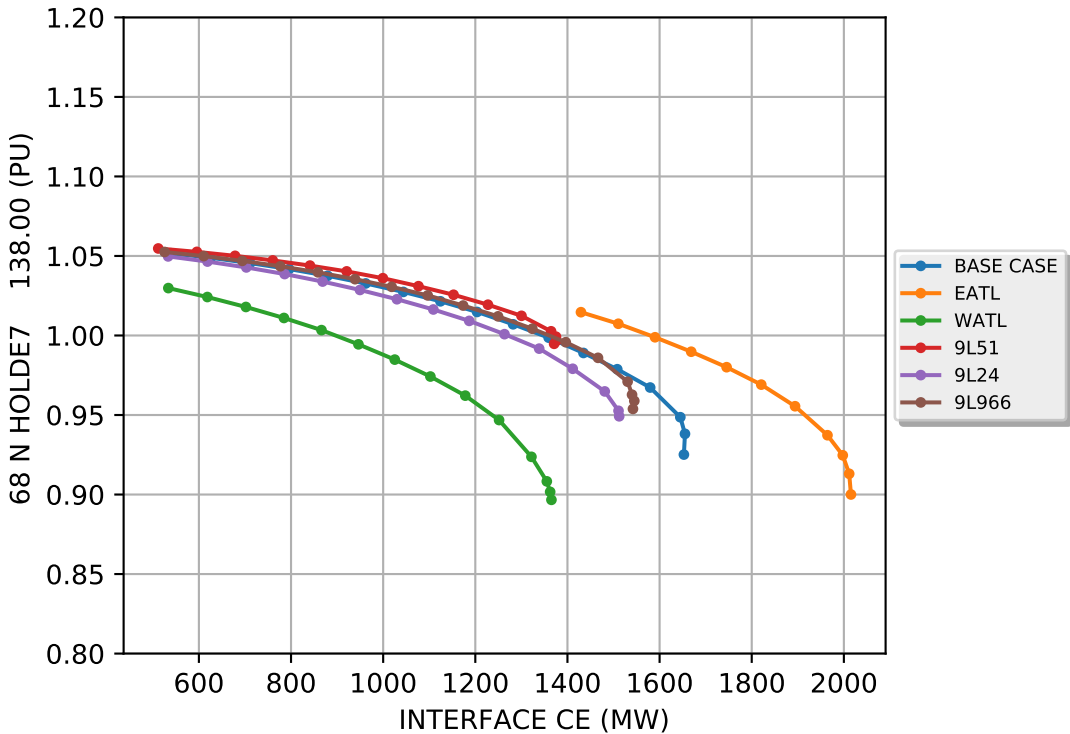


Figure: E-2-249

Case: M11, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 41.0%

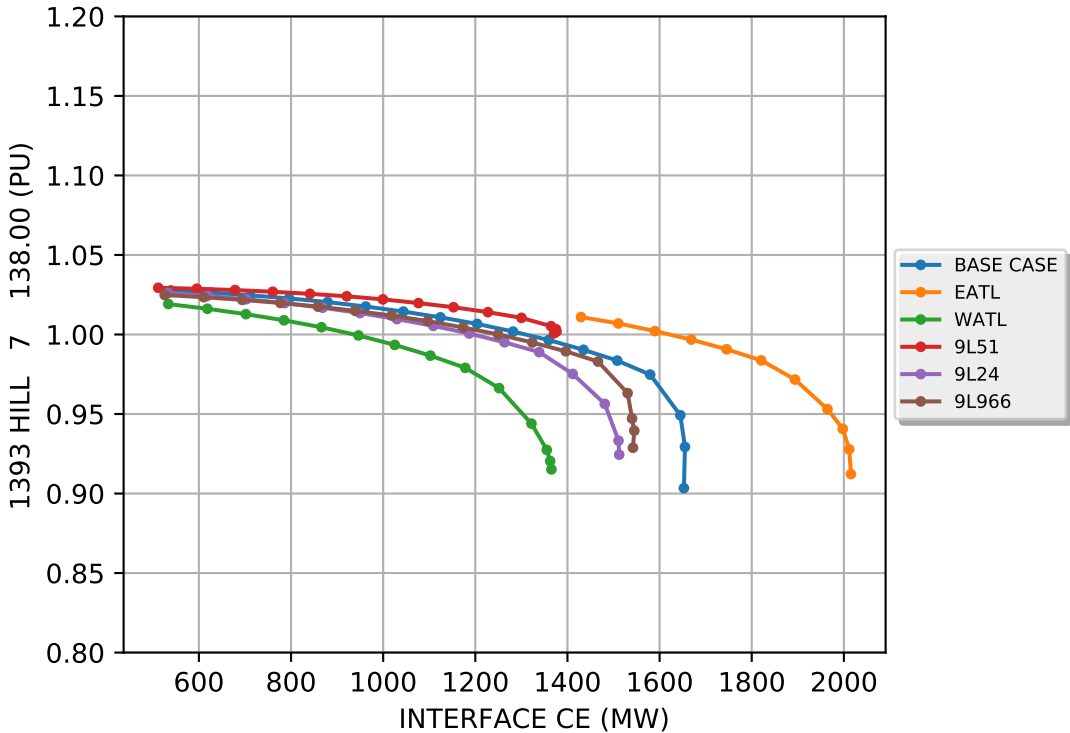


Figure: E-2-250

Case: M11, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 41.0%

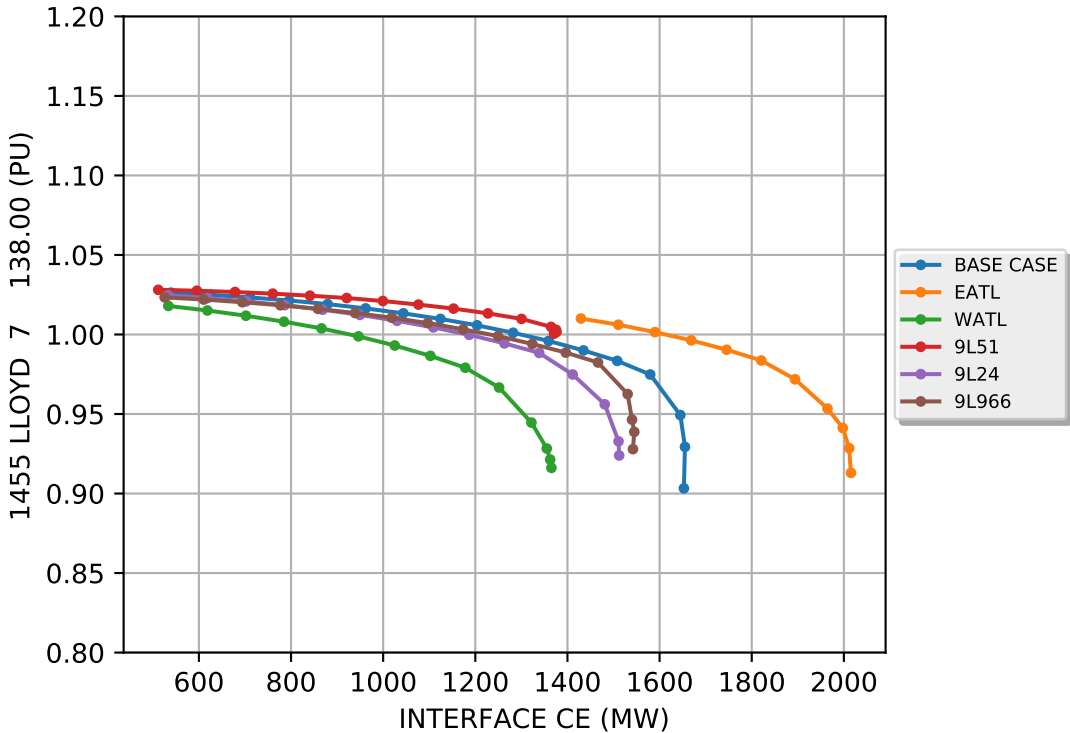


Figure: E-2-251

Case: M11, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 41.0%

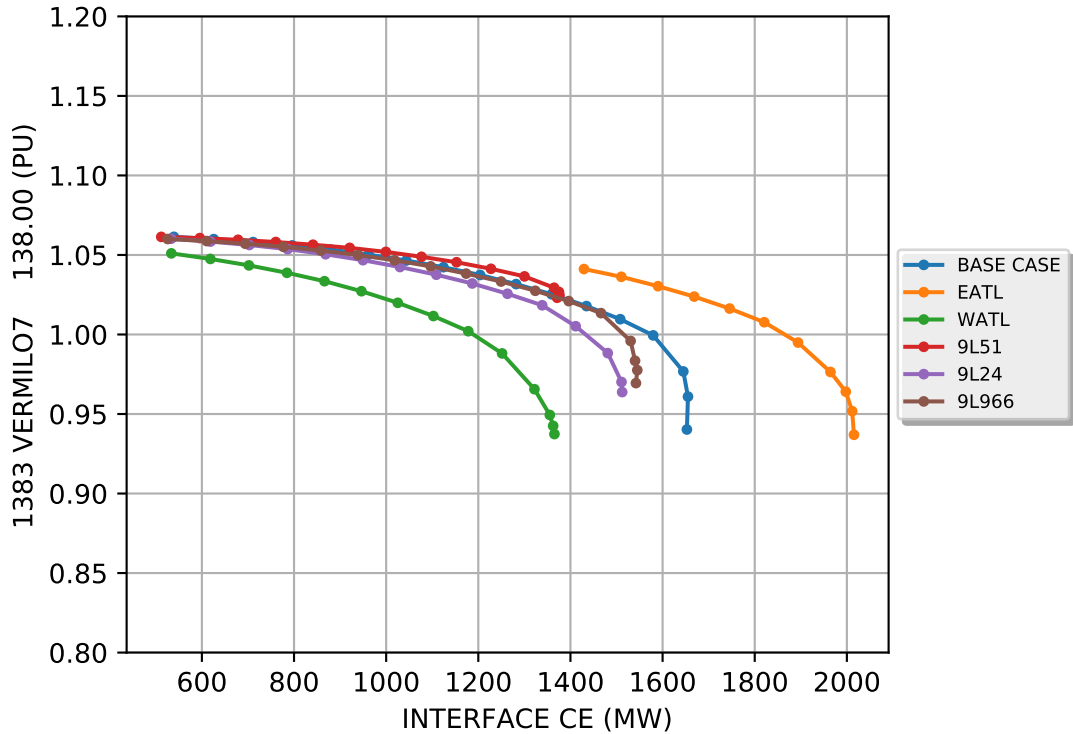


Figure: E-2-252

Case: M11, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 41.0%

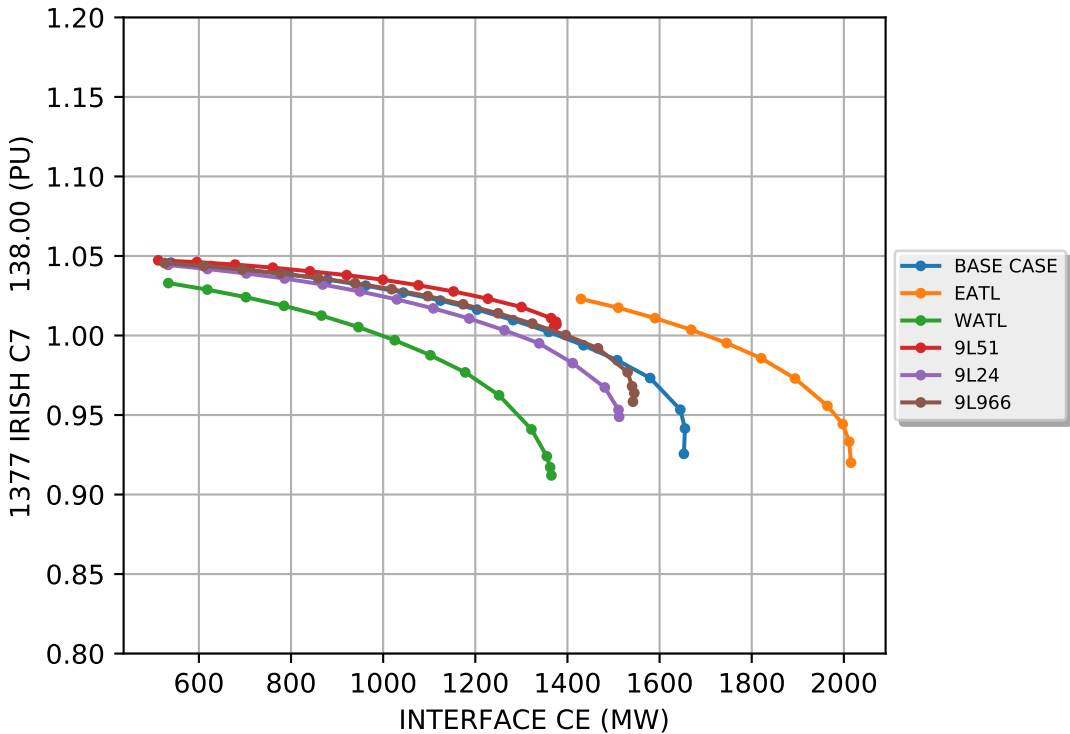


Figure: E-2-253

Case: M11, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 41.0%

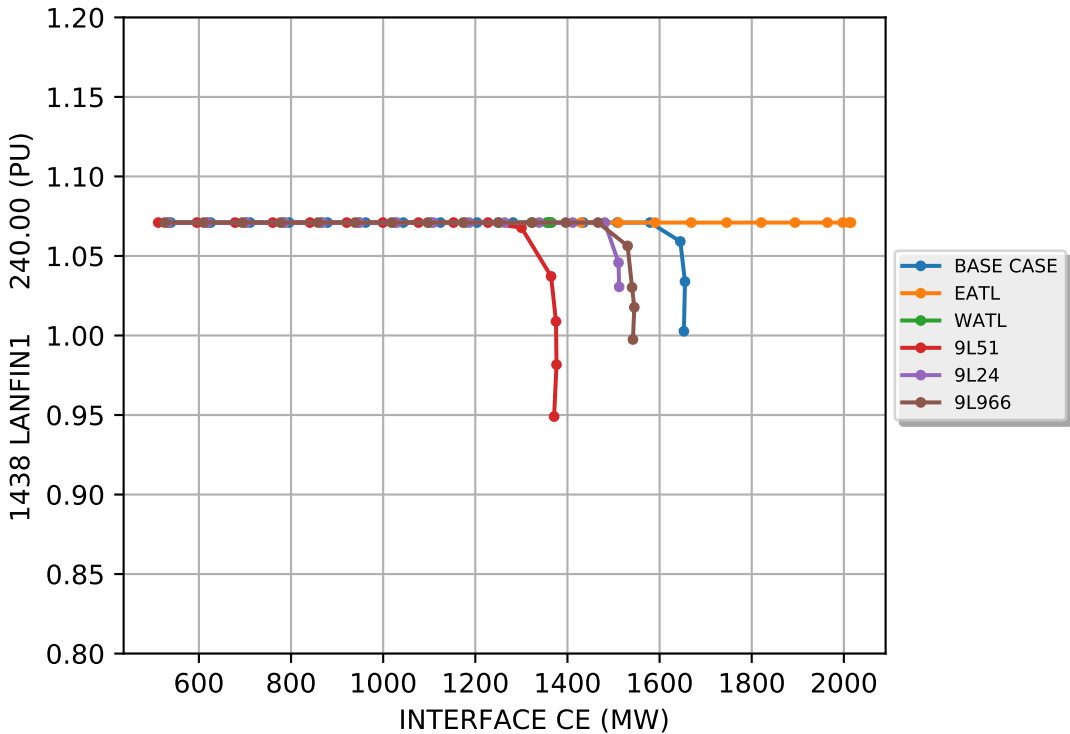


Figure: E-2-254

Case: M11, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 41.0%

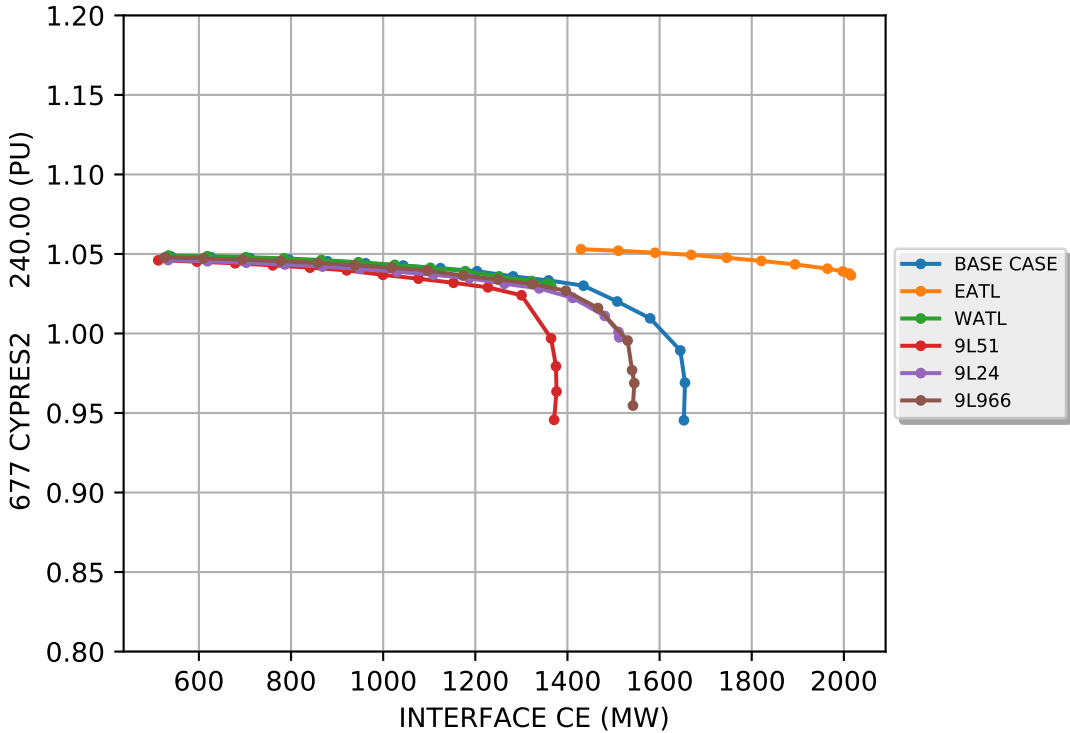


Figure: E-2-255

Case: M11, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 41.0%

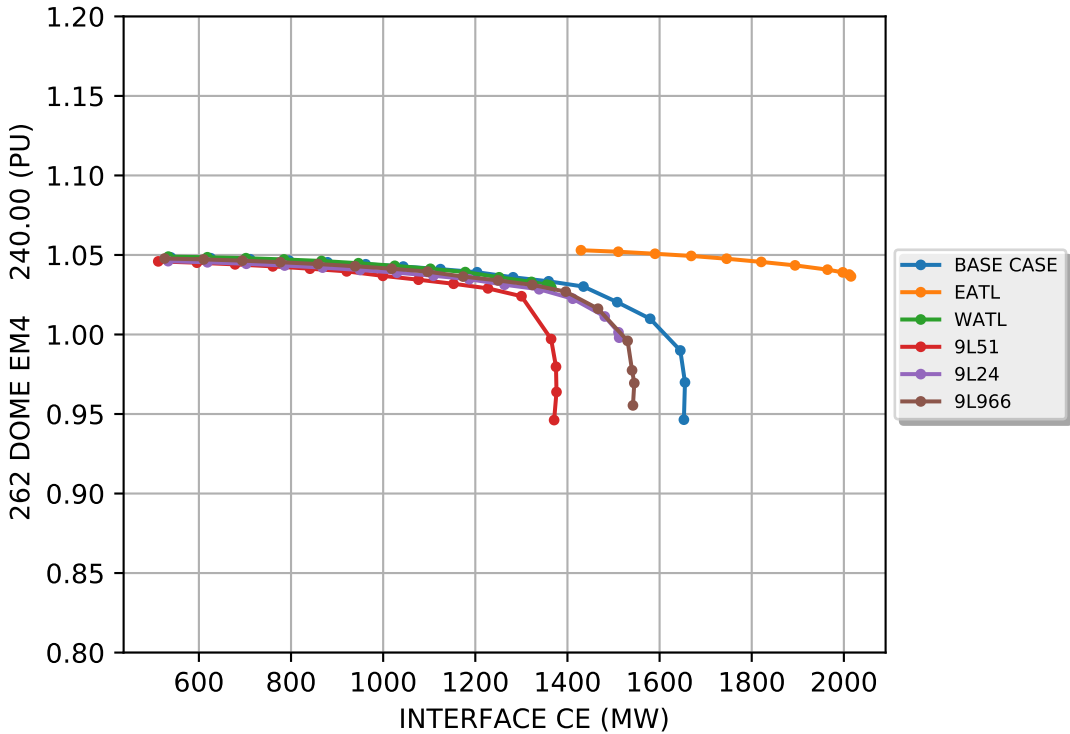


Figure: E-2-256

Case: M11, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 41.0%

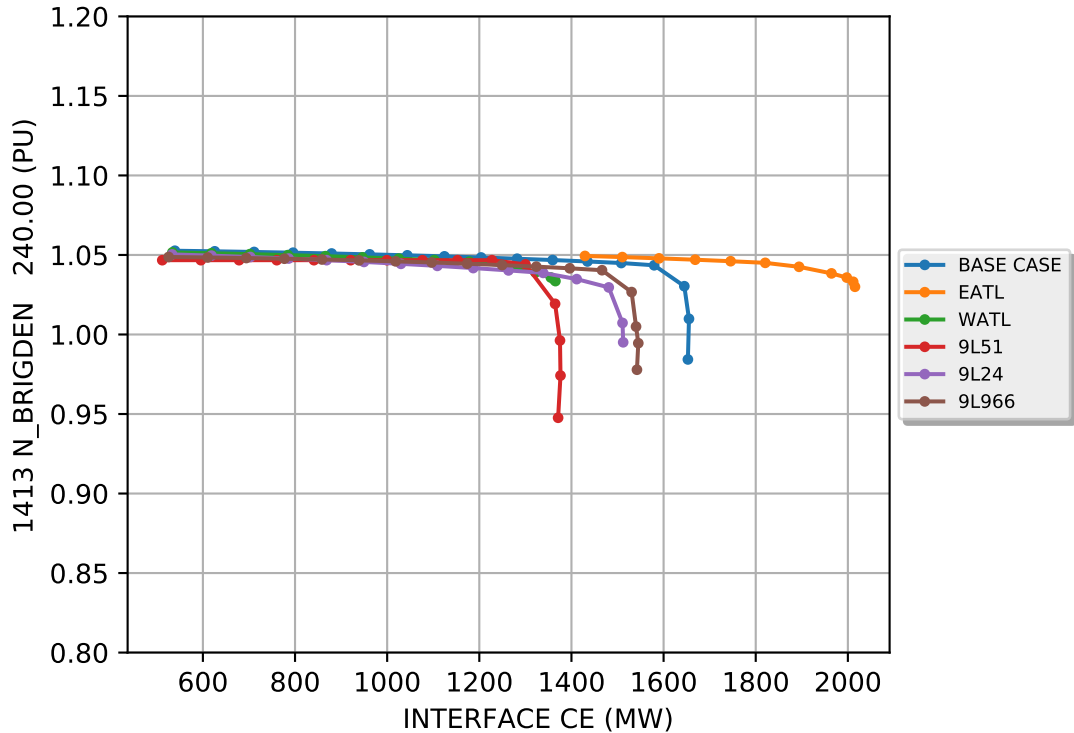


Figure: E-2-257

Case: M11, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 41.0%

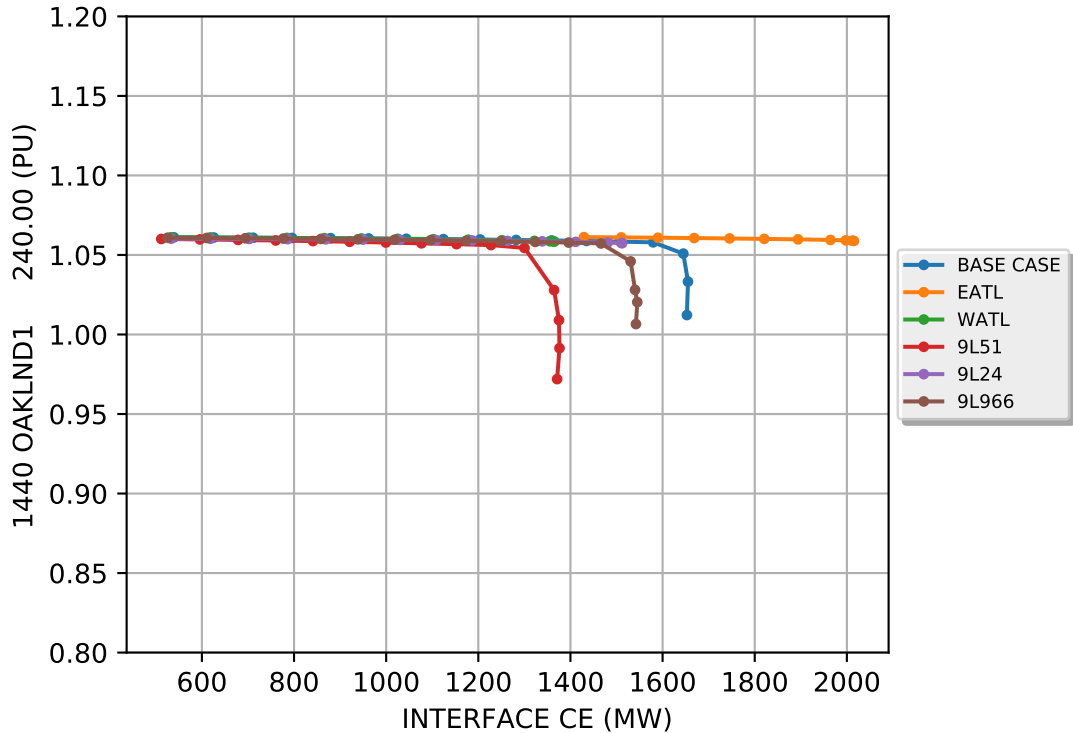


Figure: E-2-258

Case: M10, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 54.1%

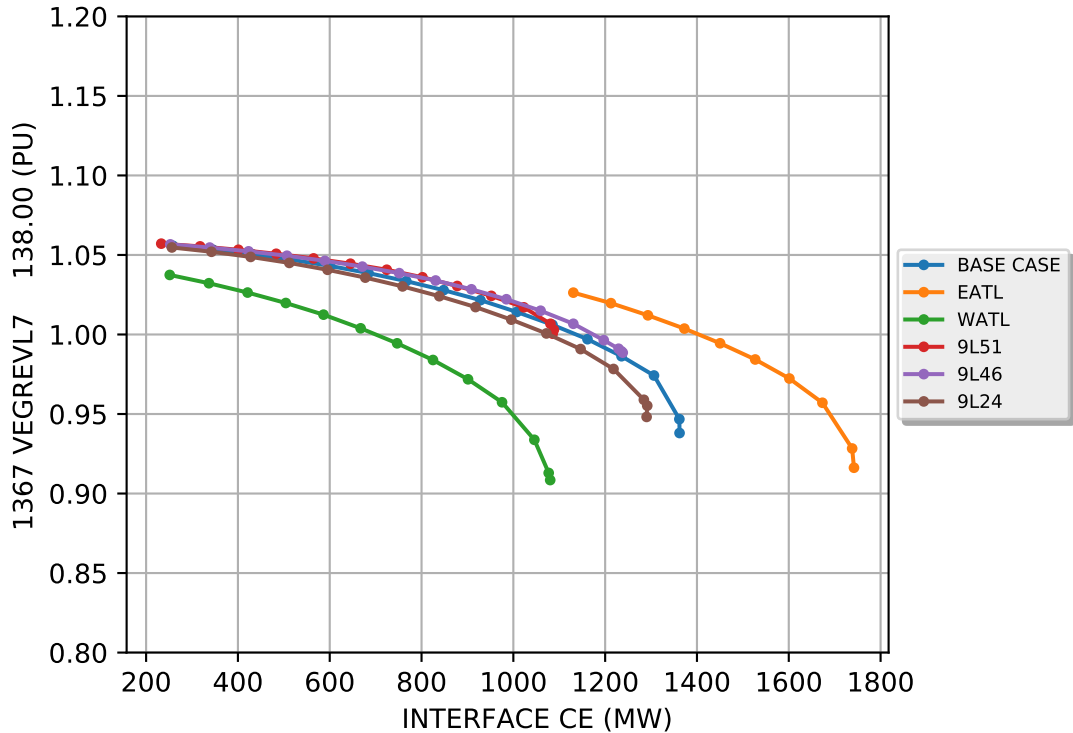


Figure: E-2-259

Case: M10, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 54.1%

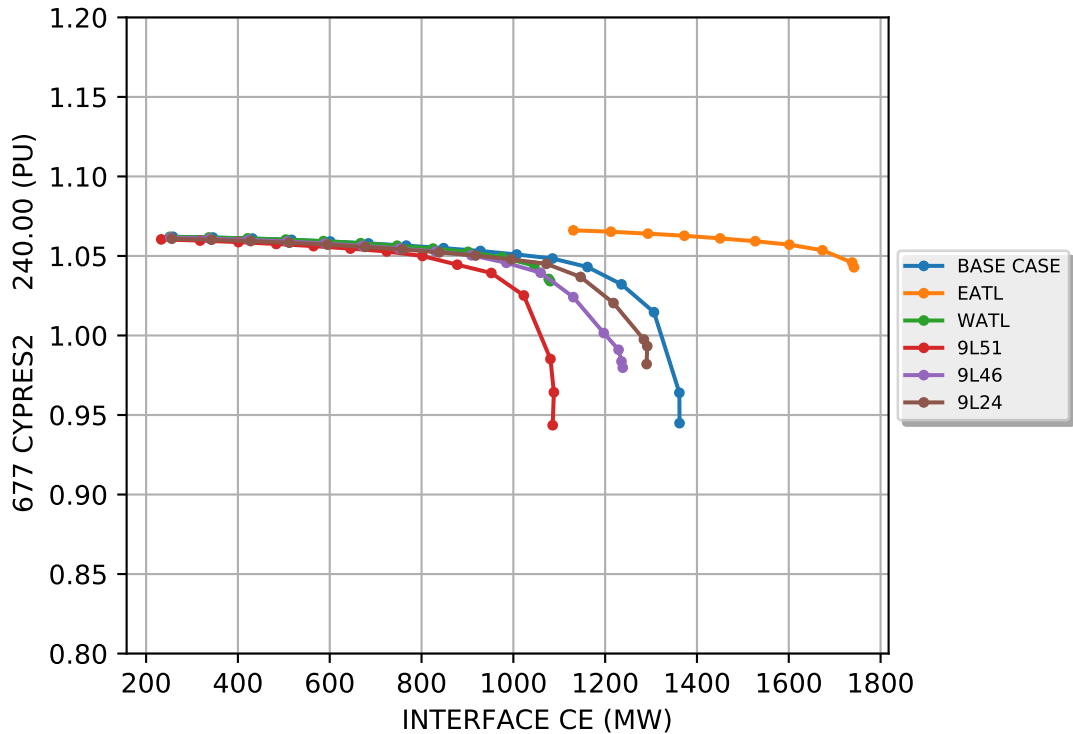


Figure: E-2-260

Case: M10, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 54.1%

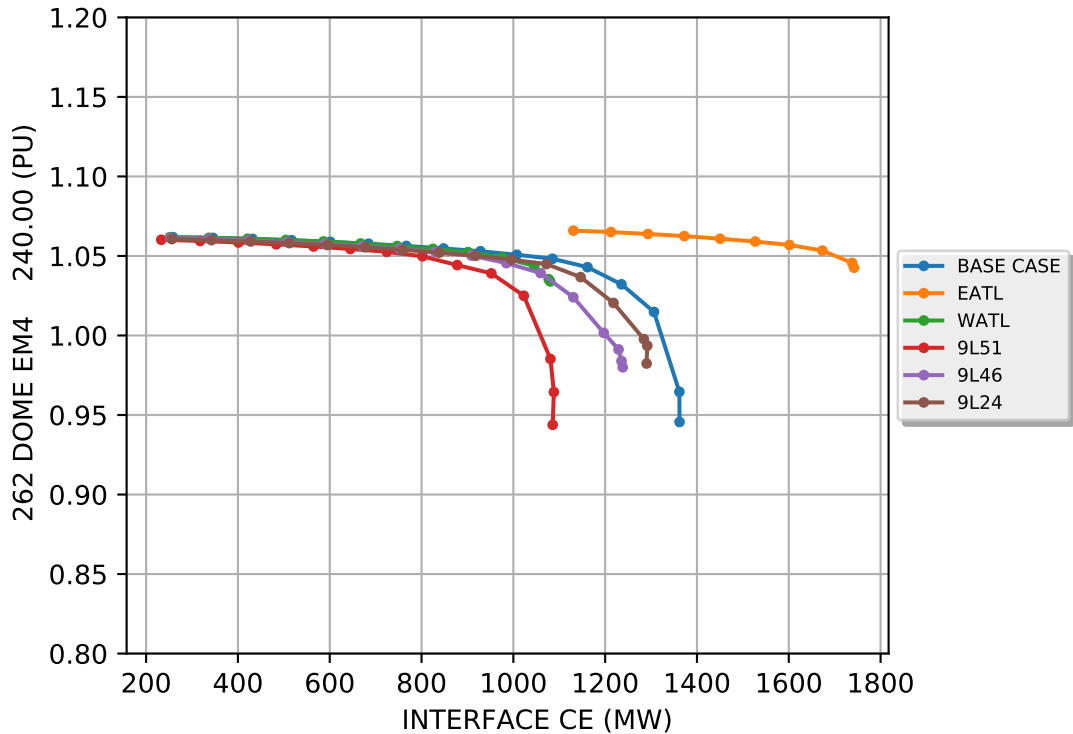


Figure: E-2-261

Case: M10, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 54.1%

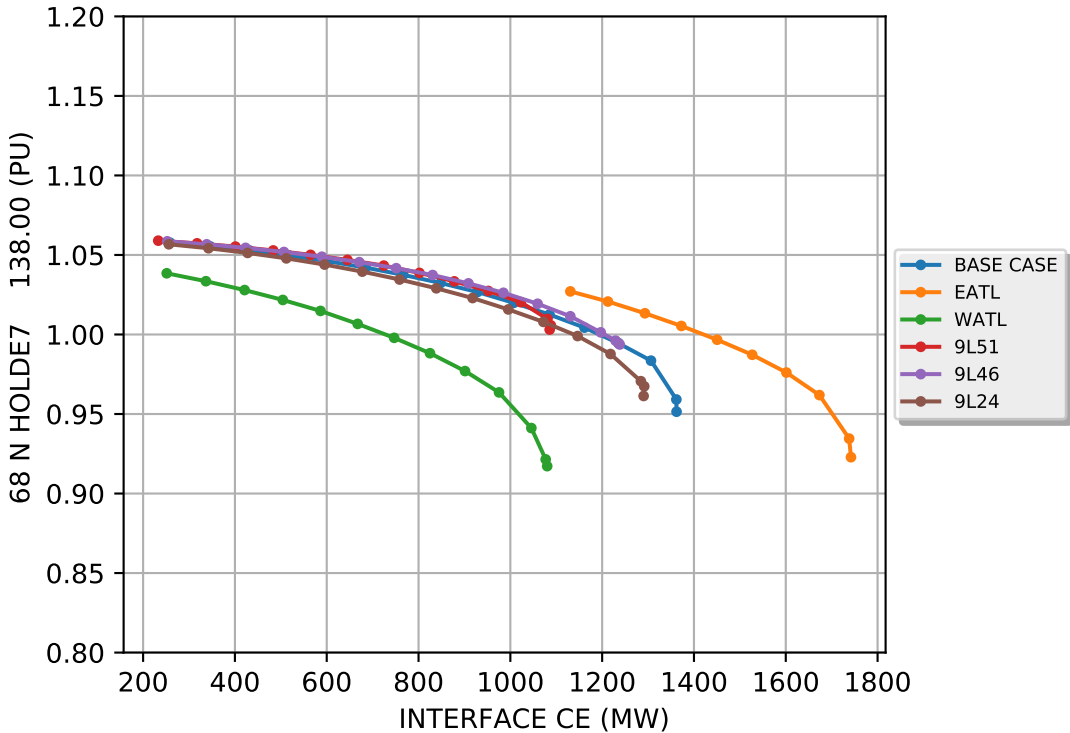


Figure: E-2-262

Case: M10, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 54.1%

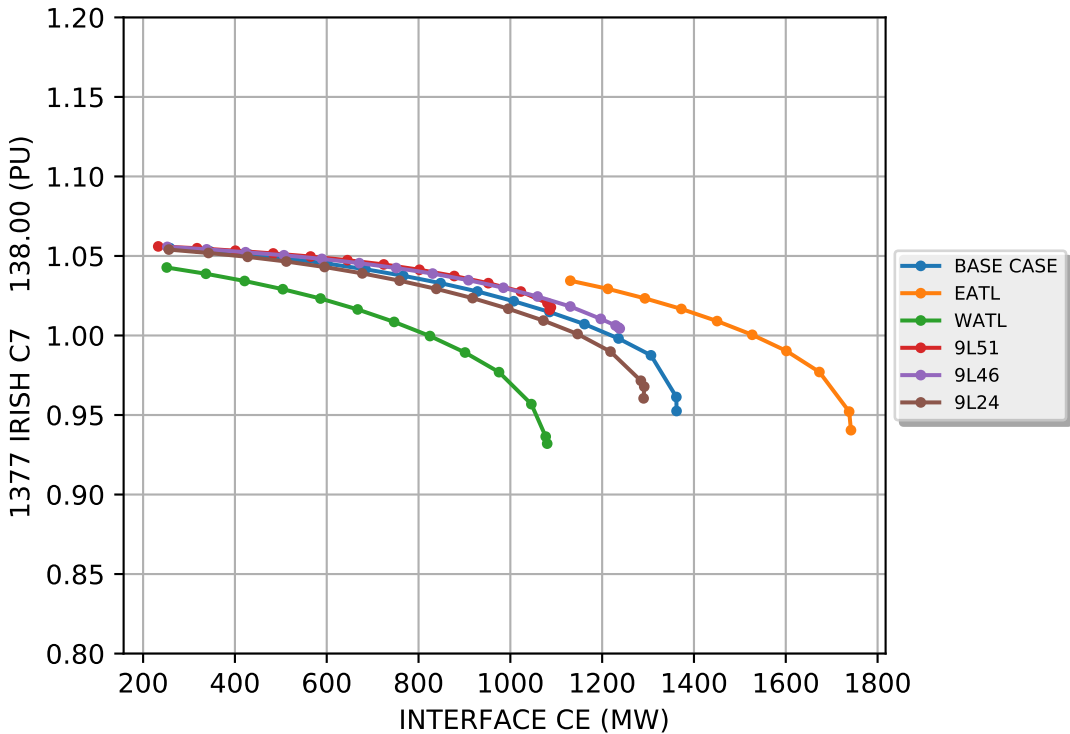


Figure: E-2-263

Case: M10, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 54.1%

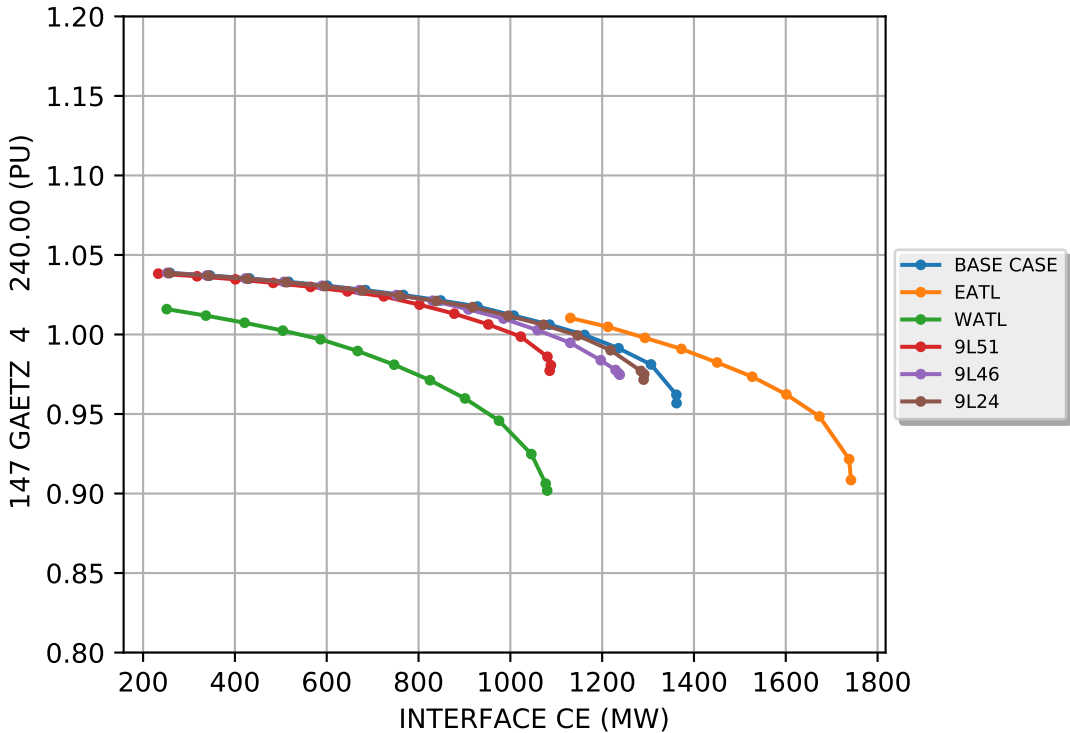


Figure: E-2-264

Case: M10, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 54.1%

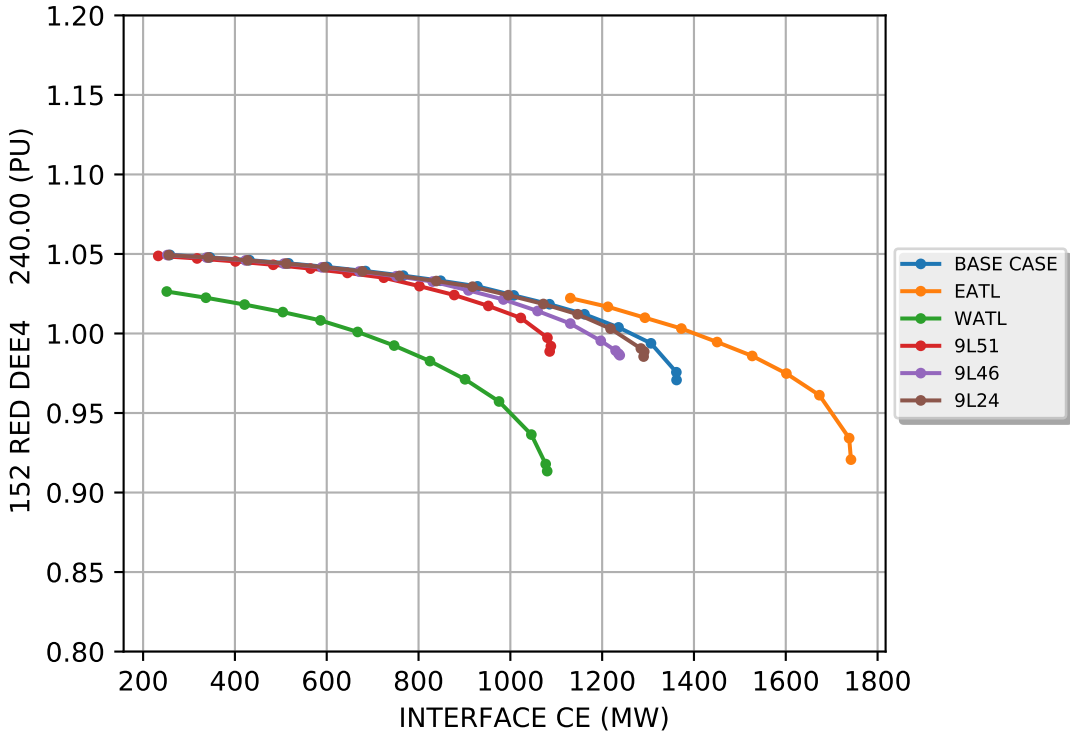


Figure: E-2-265

Case: M10, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 54.1%

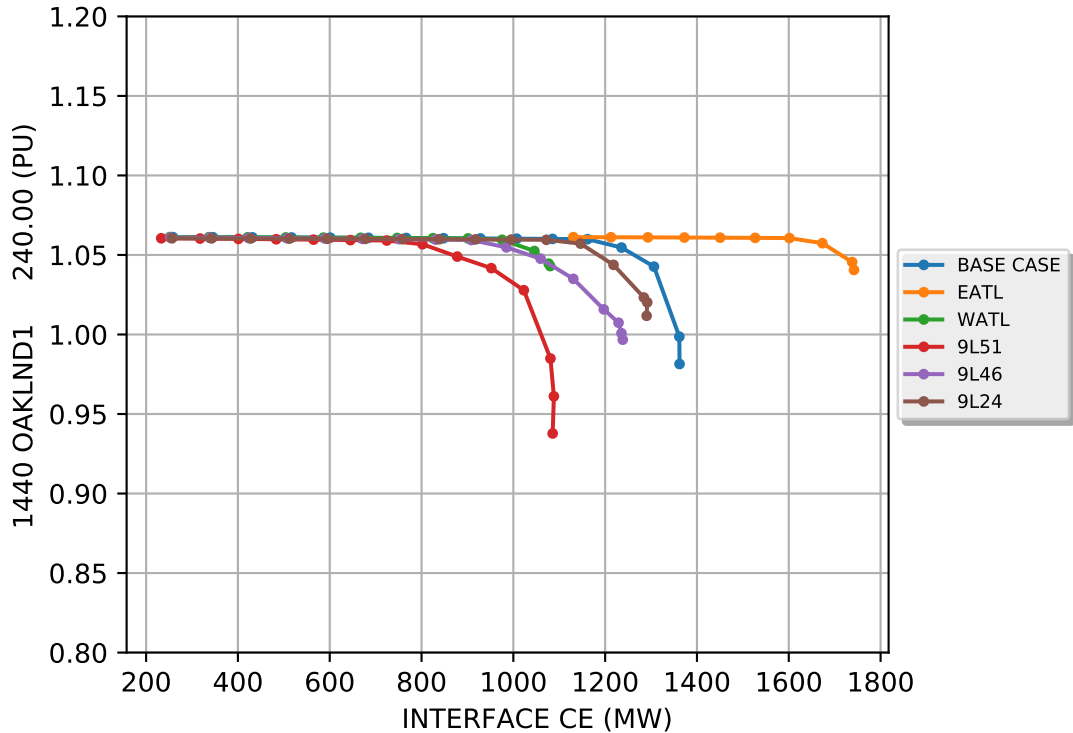


Figure: E-2-266

Case: M10, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 54.1%

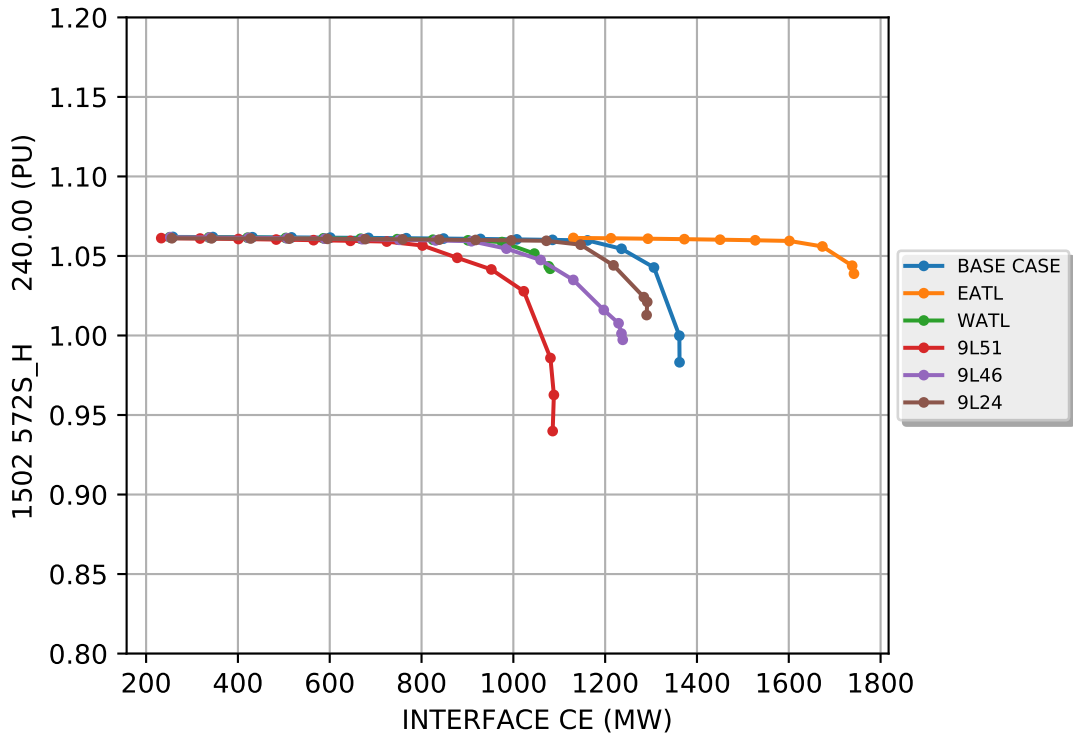


Figure: E-2-267

Case: M10, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 54.1%

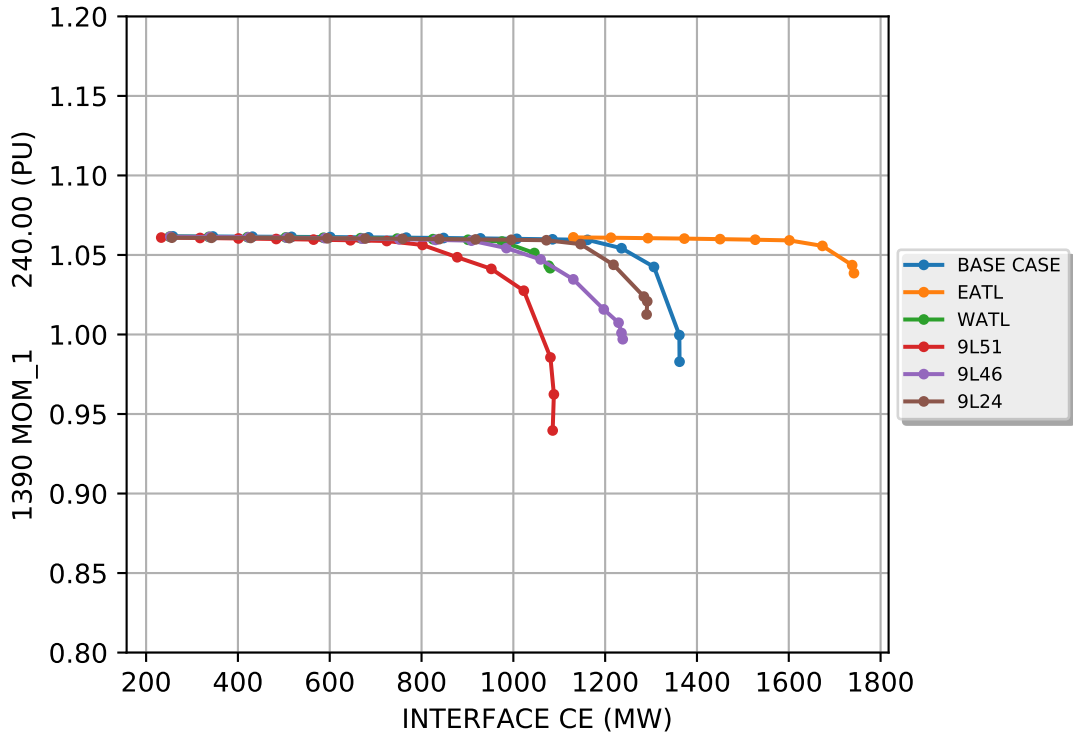


Figure: E-2-268

Case: M10, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 54.1%

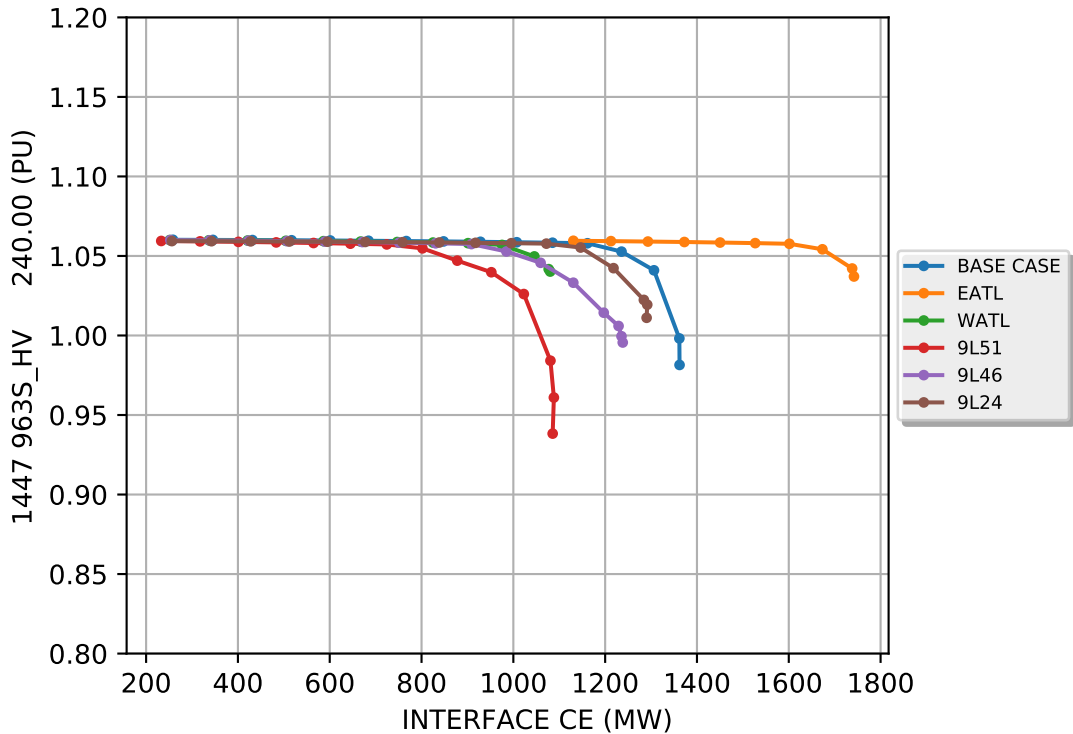


Figure: E-2-269

Case: M10, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 54.1%

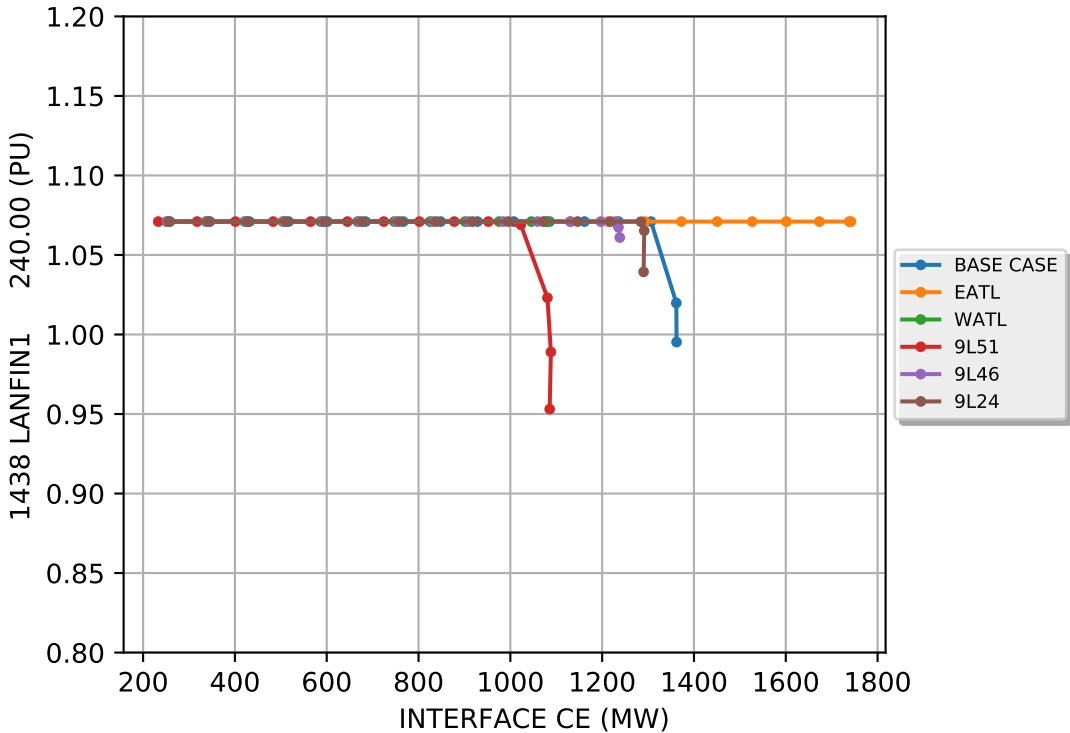


Figure: E-2-270

Case: M10, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 54.1%

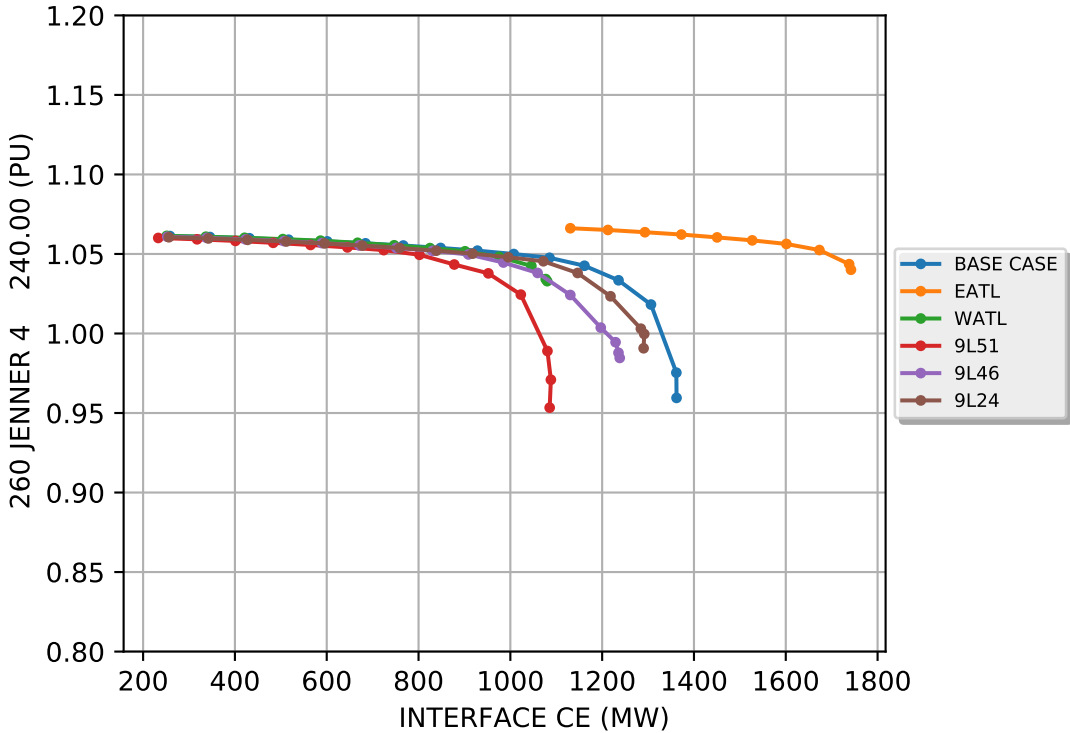


Figure: E-2-271

Case: M10, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 54.1%

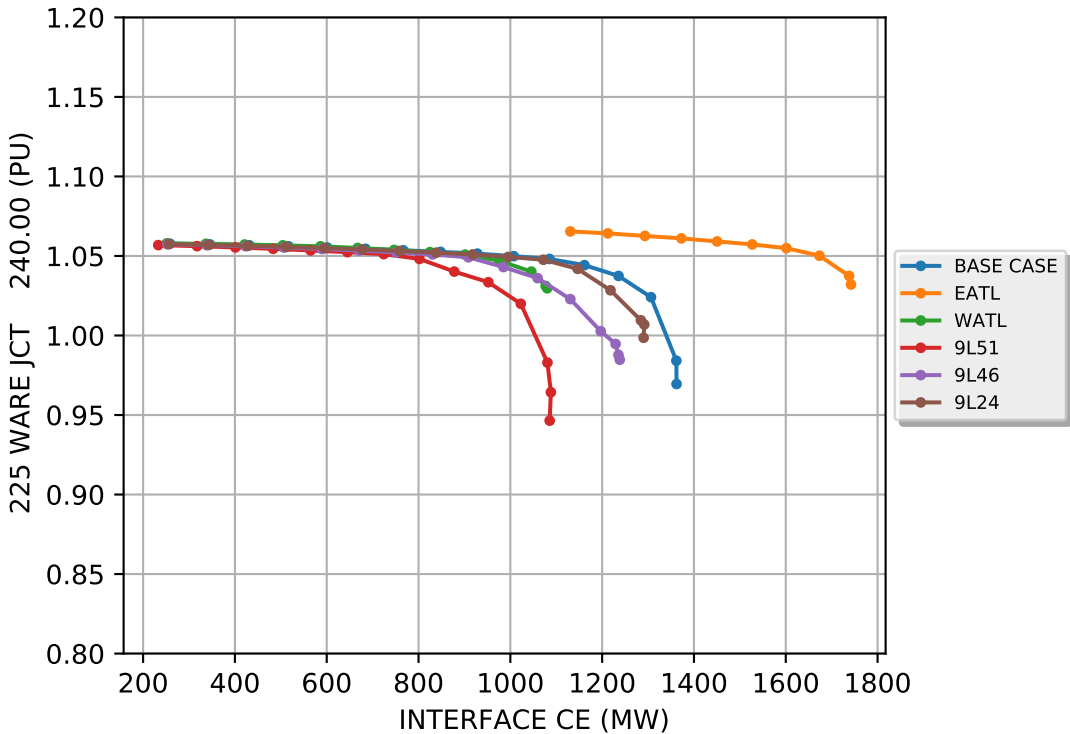


Figure: E-2-272

Case: M10, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 54.1%

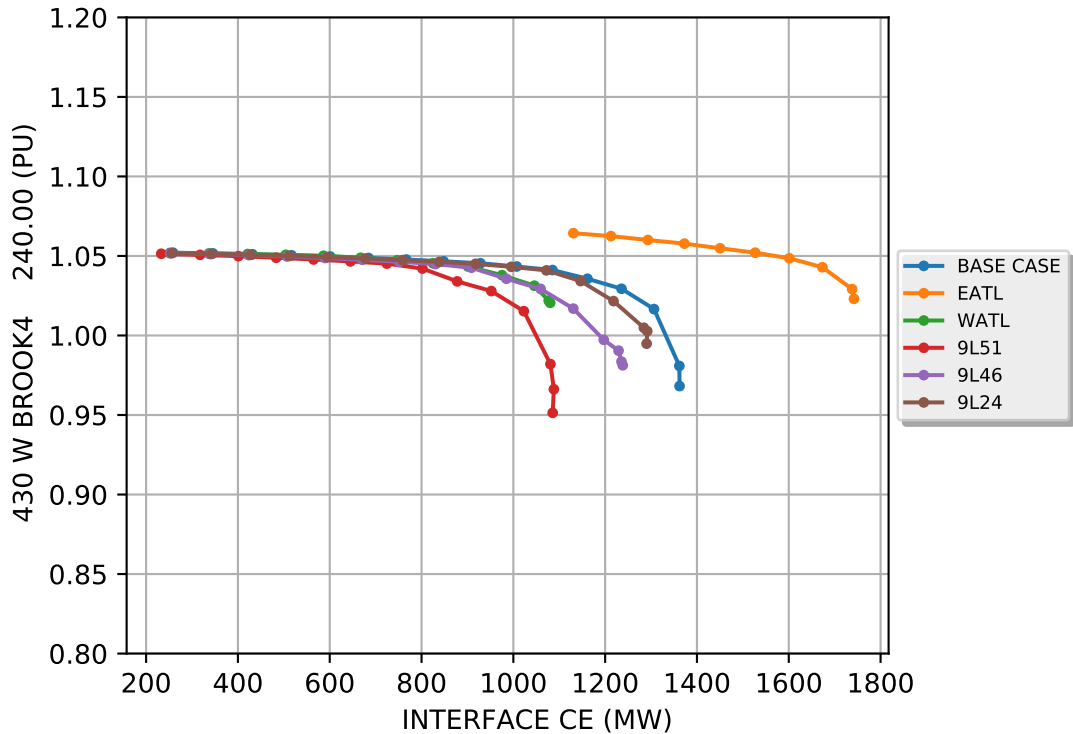


Figure: E-2-273

Case: M10, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 54.1%

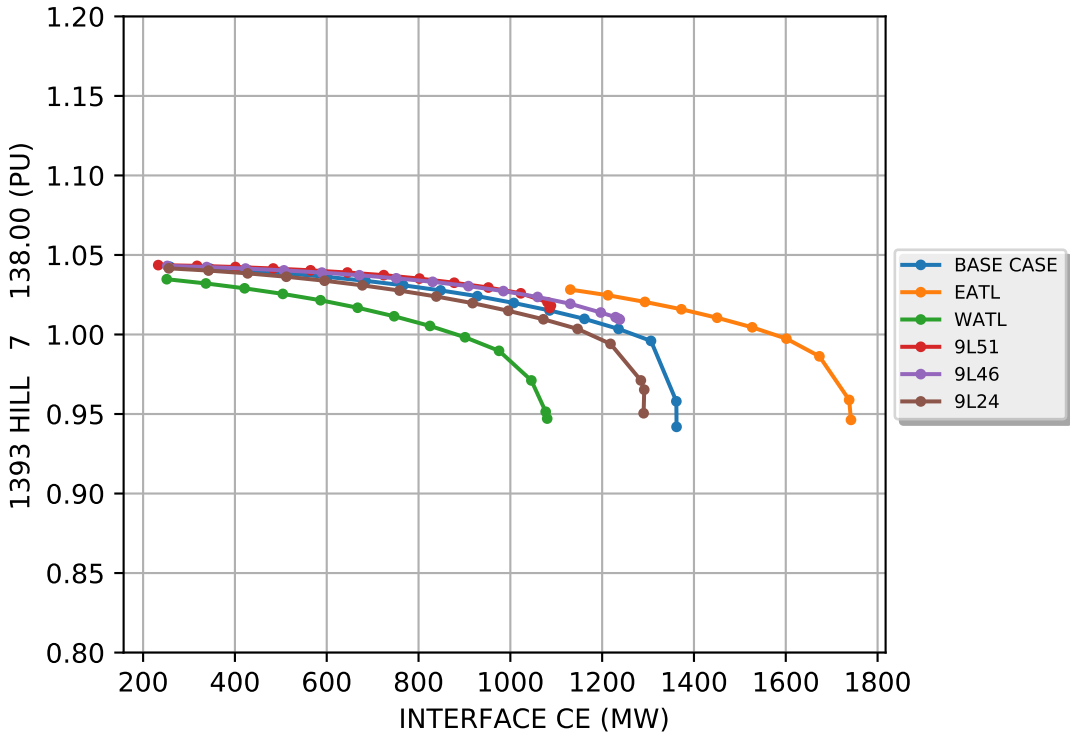
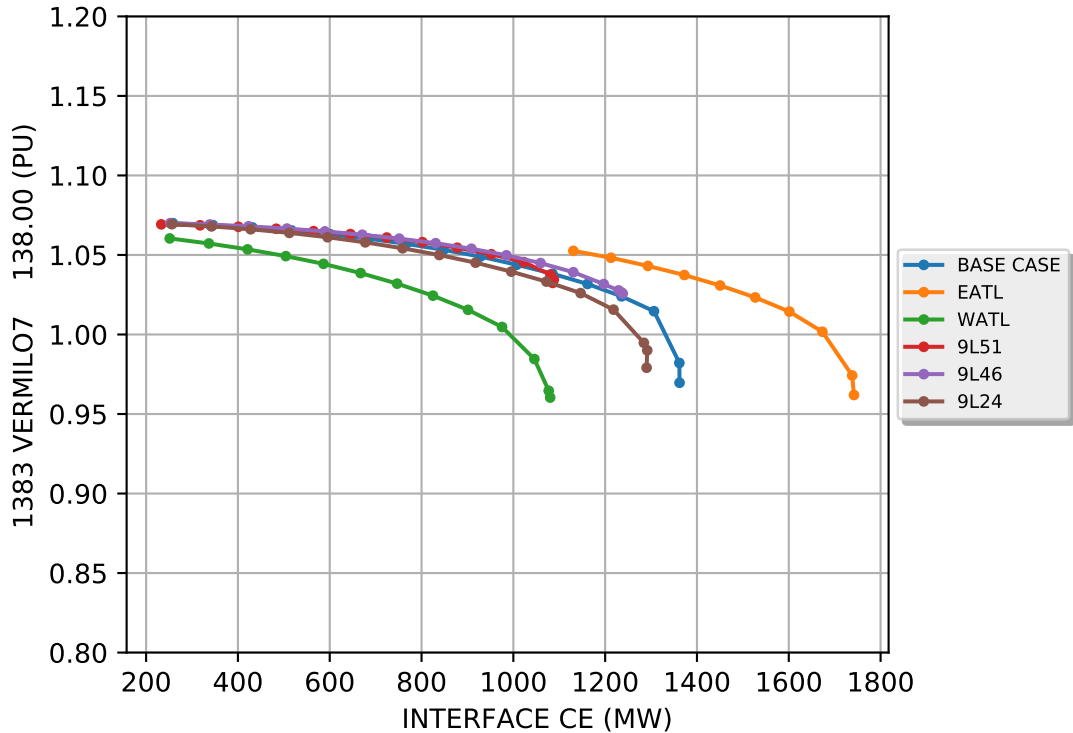


Figure: E-2-274

Case: M10, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 54.1%



Worst Case Summaries:

Min Voltage: 0.80 PU, Page: 192

Min Margin: 23.1%, Page: 13

Min Margin Maximum 0.9 PU Voltage: 22.4%, Page: 192

Voltages above 1.1 PU in pages:

Attachment E-3 - PV Results

CE, Option: Post CRPC + CETO 2 Ckts, Cat. B

Figure: E-3-1

Case: H1, Option: BOTHC2

Min Voltage: 0.82 PU, Min Margin: 25.5%

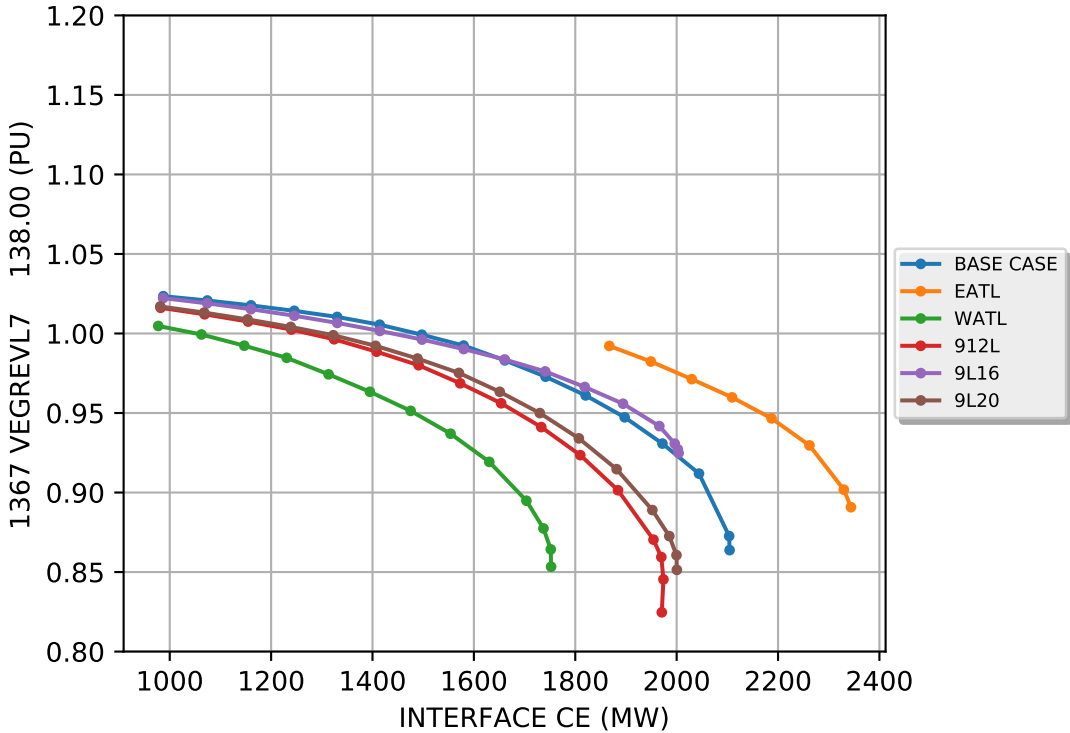


Figure: E-3-2

Case: H1, Option: BOTHC2

Min Voltage: 0.85 PU, Min Margin: 25.5%

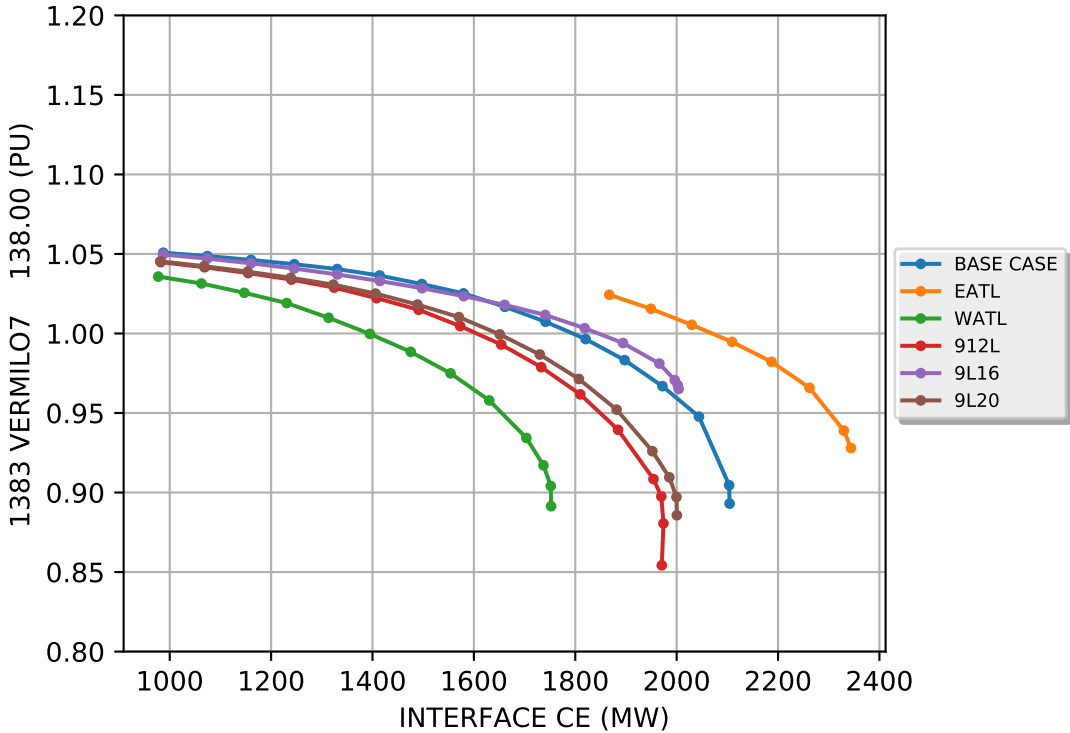


Figure: E-3-3

Case: H1, Option: BOTHC2

Min Voltage: 0.86 PU, Min Margin: 25.5%

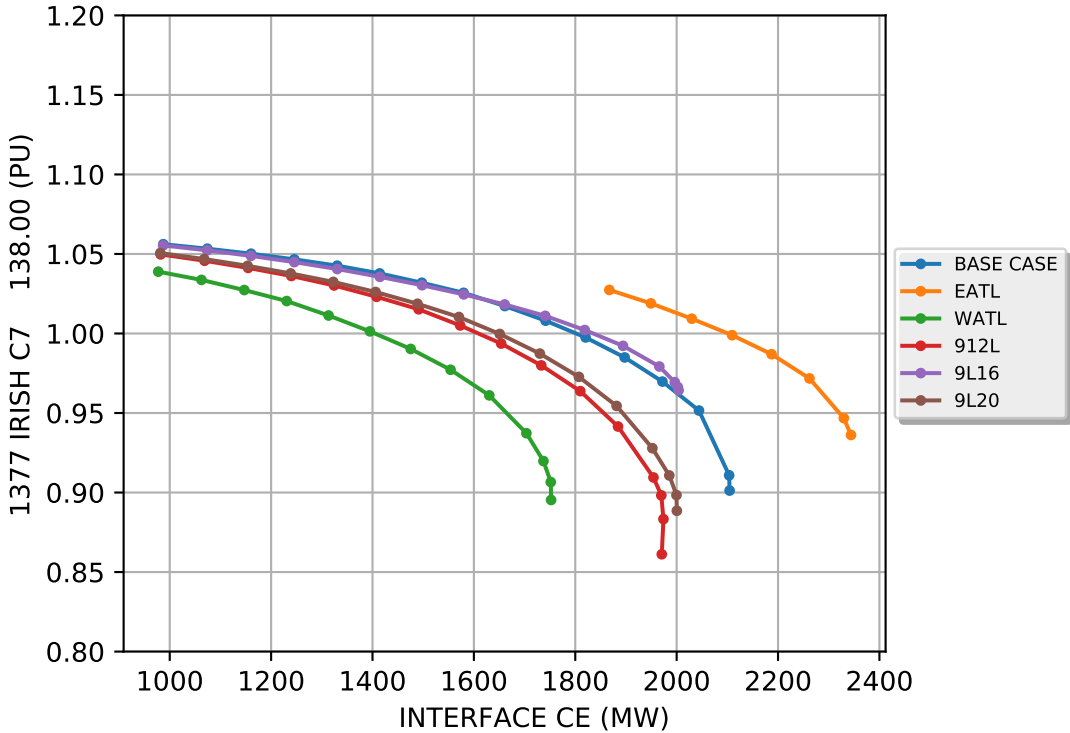


Figure: E-3-4

Case: H1, Option: BOTHC2

Min Voltage: 0.89 PU, Min Margin: 25.5%

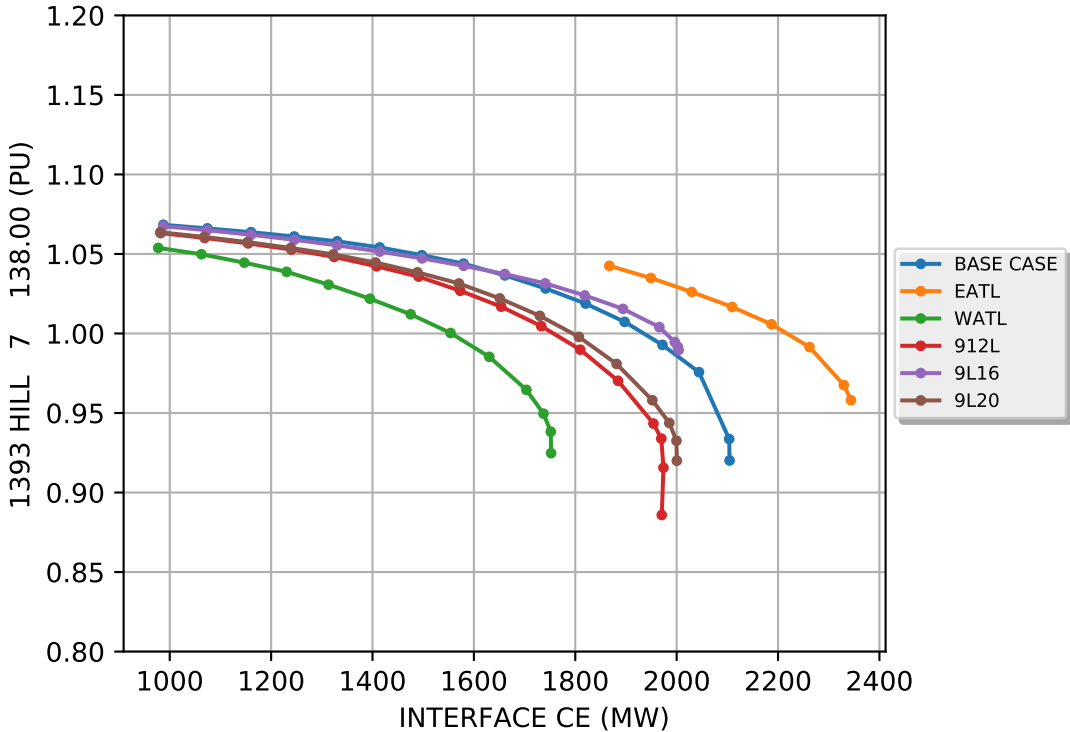


Figure: E-3-5

Case: H1, Option: BOTHC2

Min Voltage: 0.89 PU, Min Margin: 25.5%

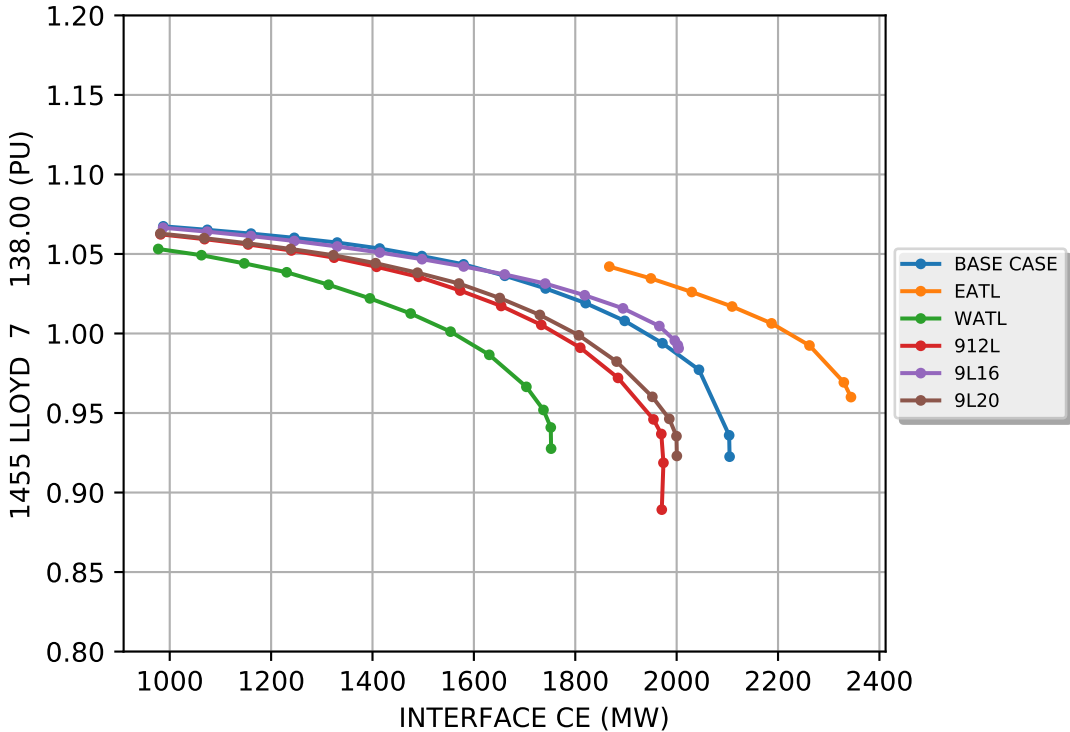


Figure: E-3-6

Case: H1, Option: BOTHC2

Min Voltage: 0.84 PU, Min Margin: 25.5%

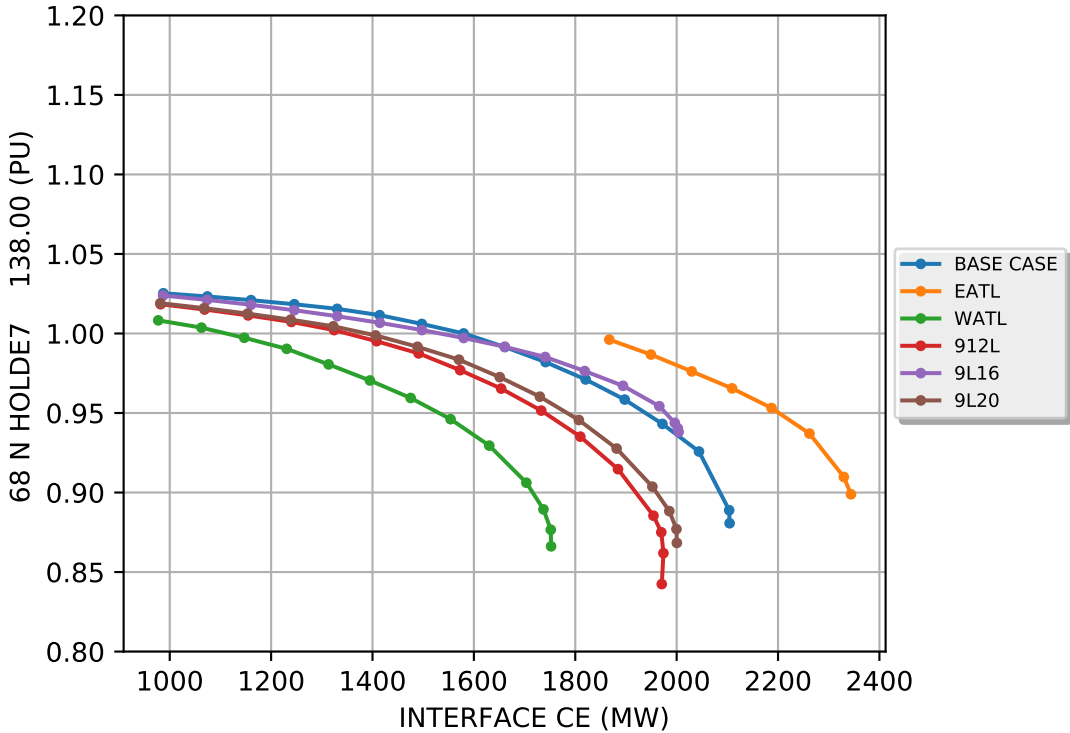


Figure: E-3-7

Case: H1, Option: BOTHC2

Min Voltage: 0.86 PU, Min Margin: 25.5%

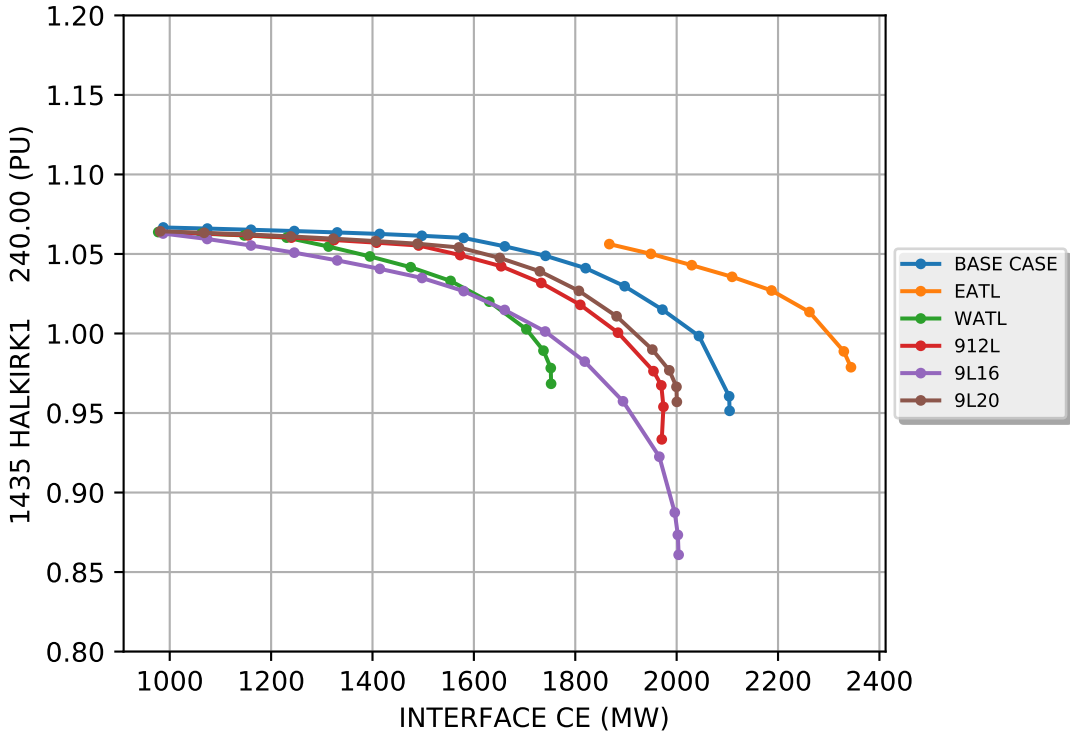


Figure: E-3-8

Case: H1, Option: BOTHC2

Min Voltage: 0.86 PU, Min Margin: 25.5%

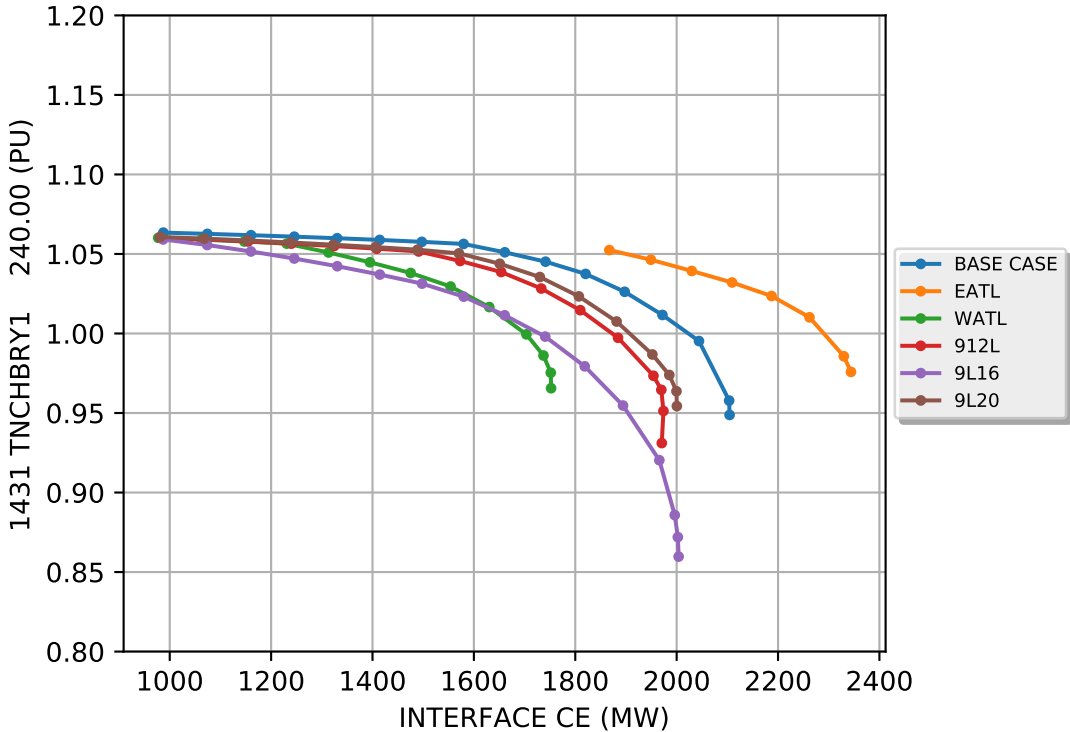


Figure: E-3-9

Case: H1, Option: BOTHC2

Min Voltage: 0.92 PU, Min Margin: 25.5%

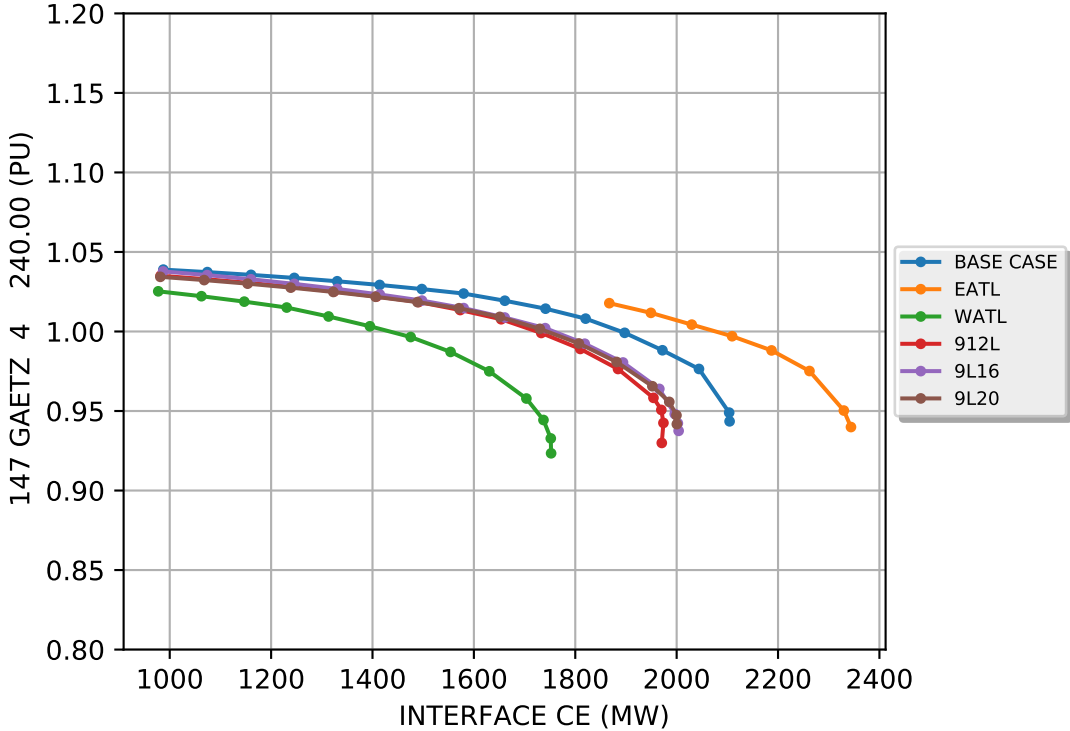


Figure: E-3-10

Case: H2, Option: BOTHC2

Min Voltage: 0.85 PU, Min Margin: 22.2%

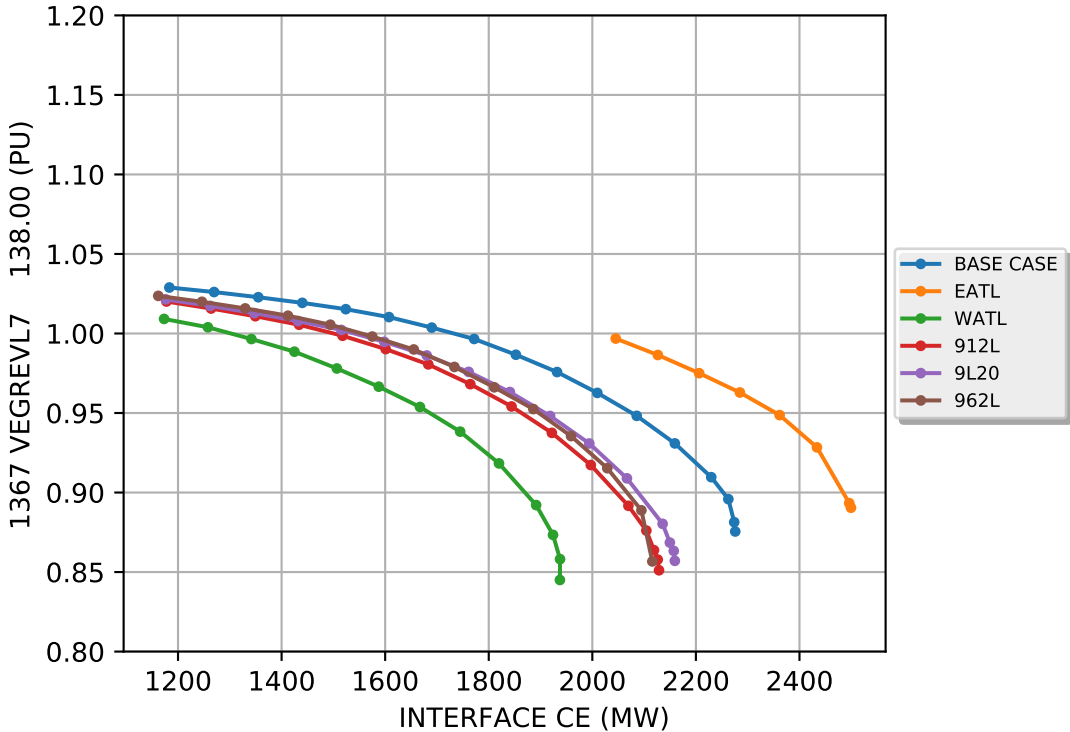


Figure: E-3-11

Case: H2, Option: BOTHC2

Min Voltage: 0.89 PU, Min Margin: 22.2%

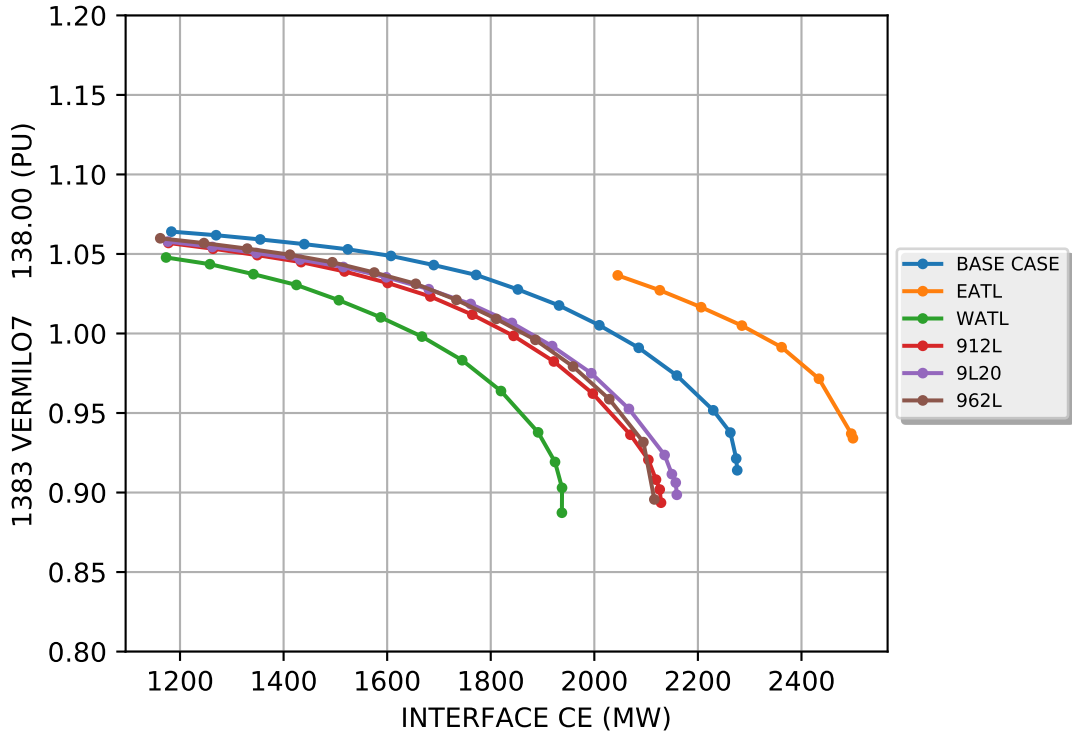


Figure: E-3-12

Case: H2, Option: BOTHC2

Min Voltage: 0.89 PU, Min Margin: 22.2%

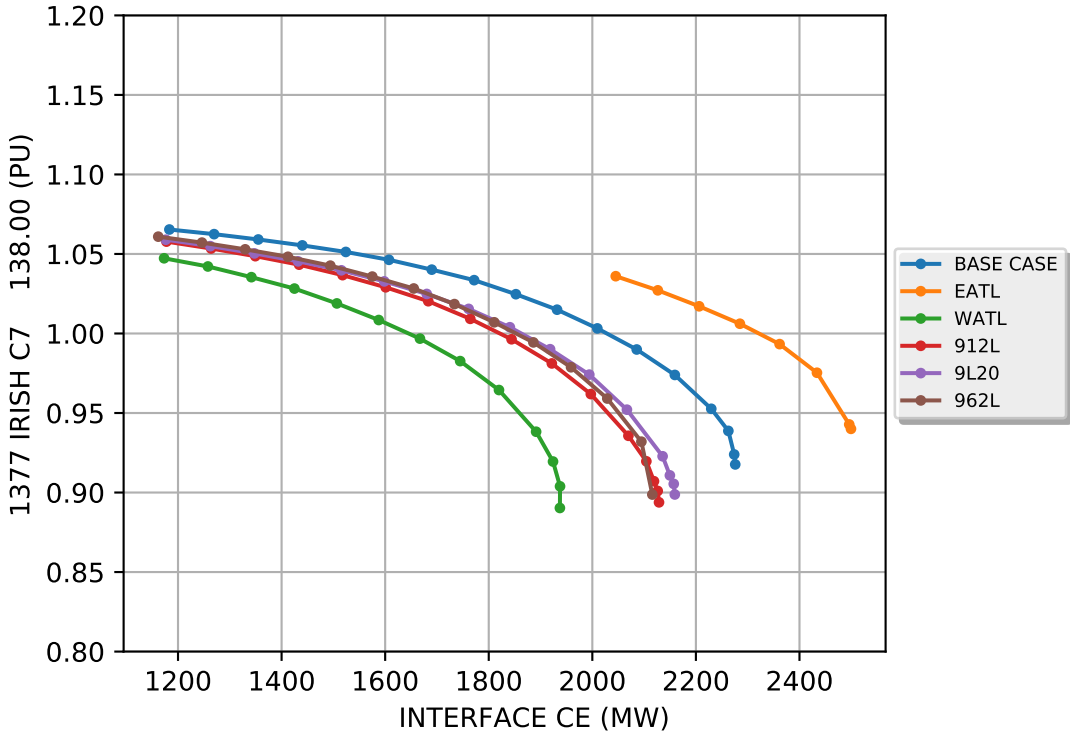


Figure: E-3-13

Case: H2, Option: BOTHC2

Min Voltage: 0.86 PU, Min Margin: 22.2%

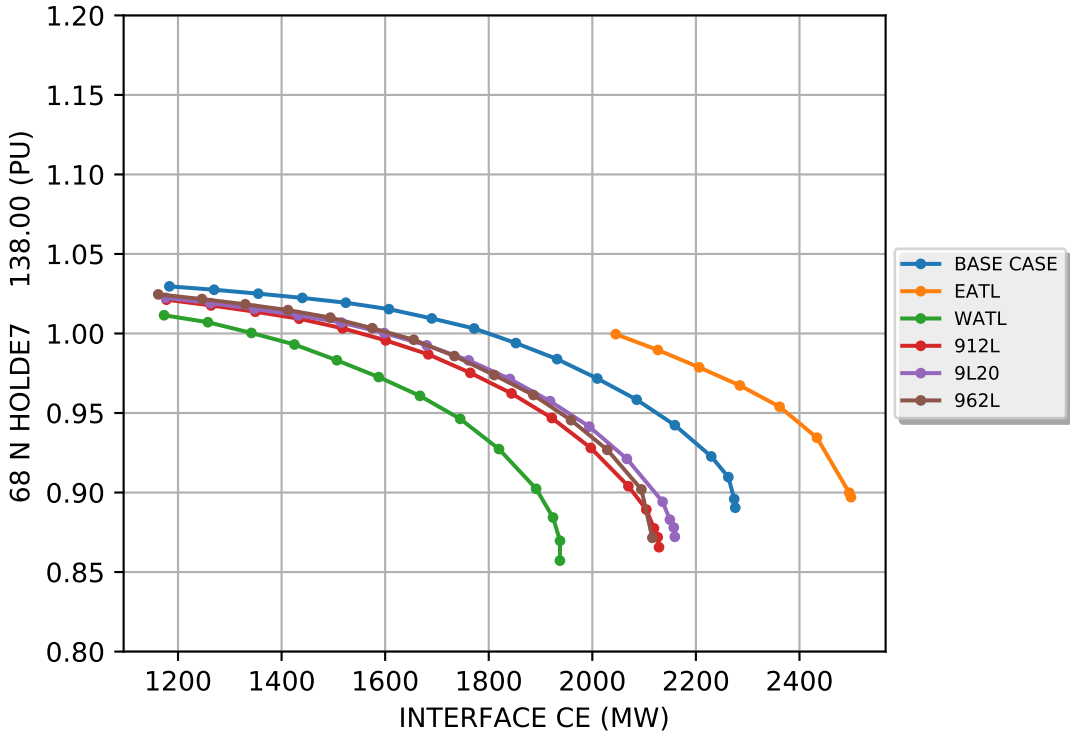


Figure: E-3-14

Case: H2, Option: BOTHC2

Min Voltage: 0.92 PU, Min Margin: 22.2%

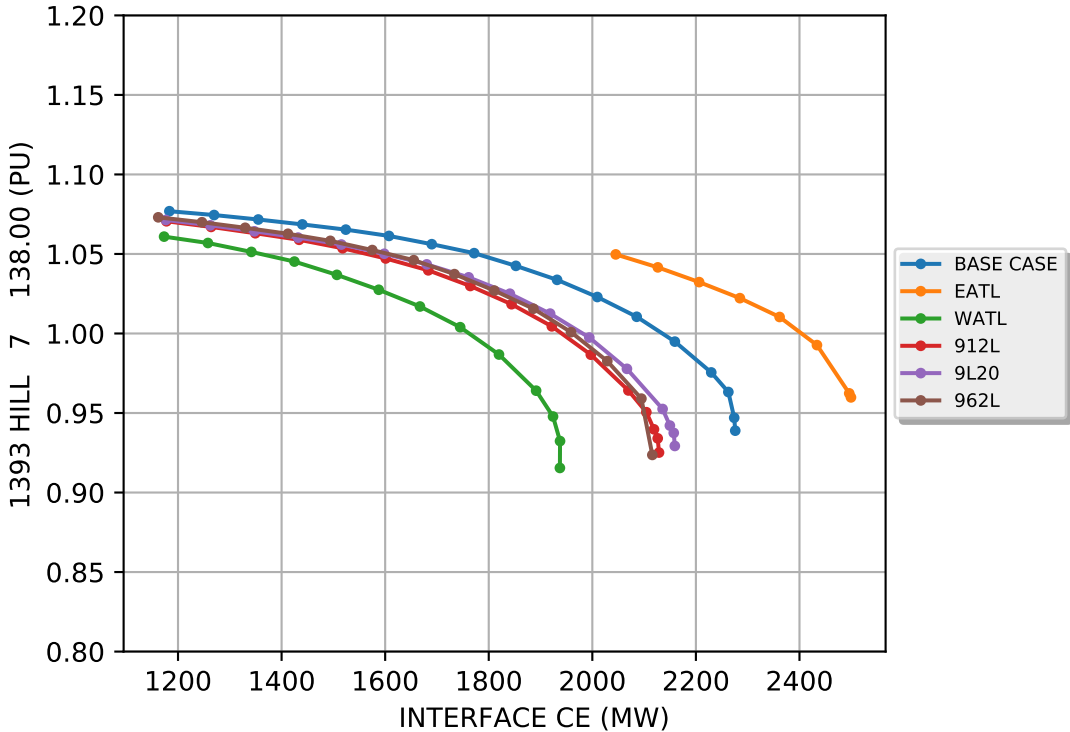


Figure: E-3-15

Case: M4, Option: BOTH2

Min Voltage: 0.83 PU, Min Margin: 22.0%

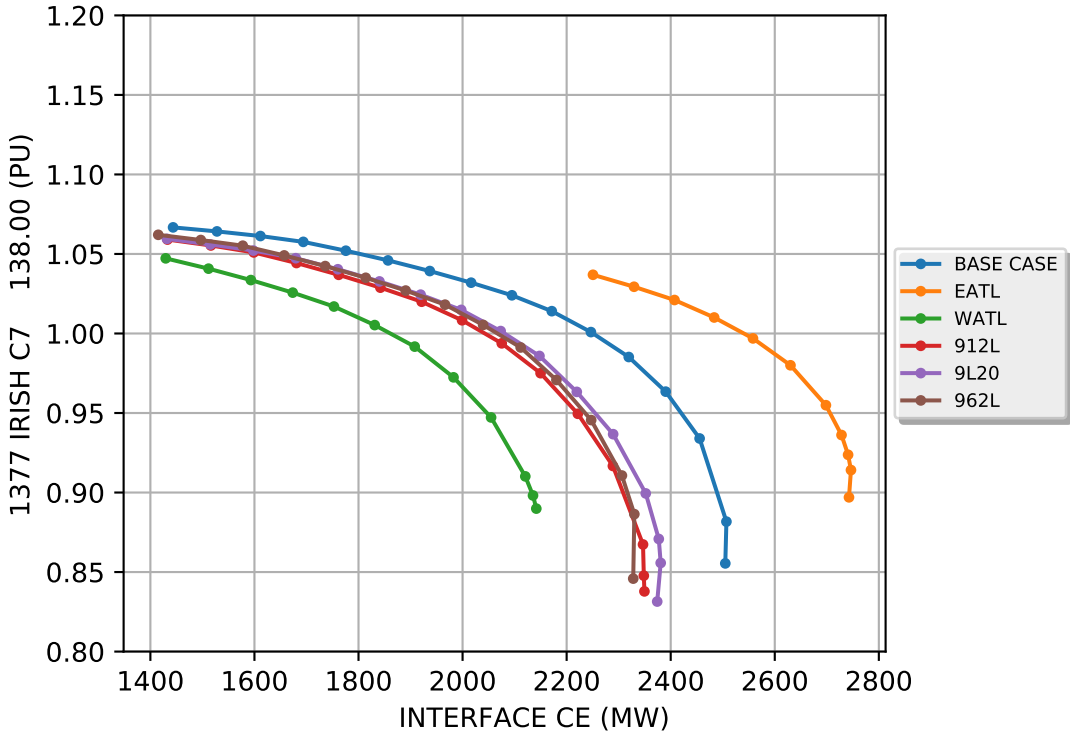


Figure: E-3-16

Case: M4, Option: BOTH2

Min Voltage: 0.79 PU, Min Margin: 22.0%

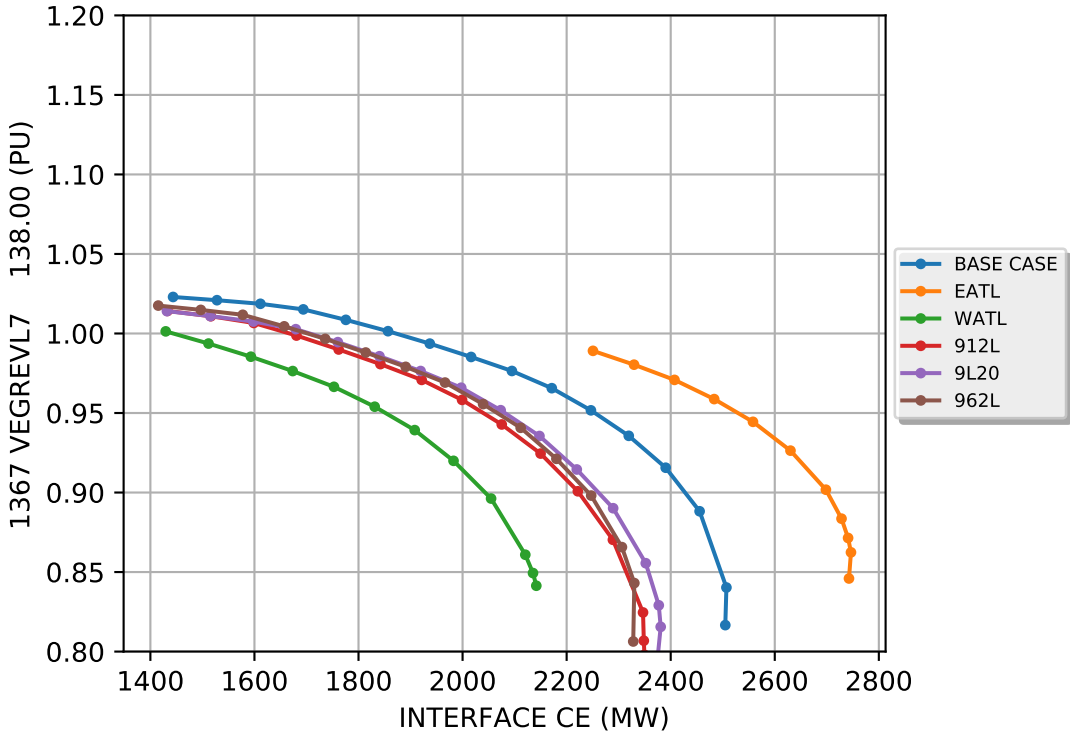


Figure: E-3-17

Case: M4, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 22.0%

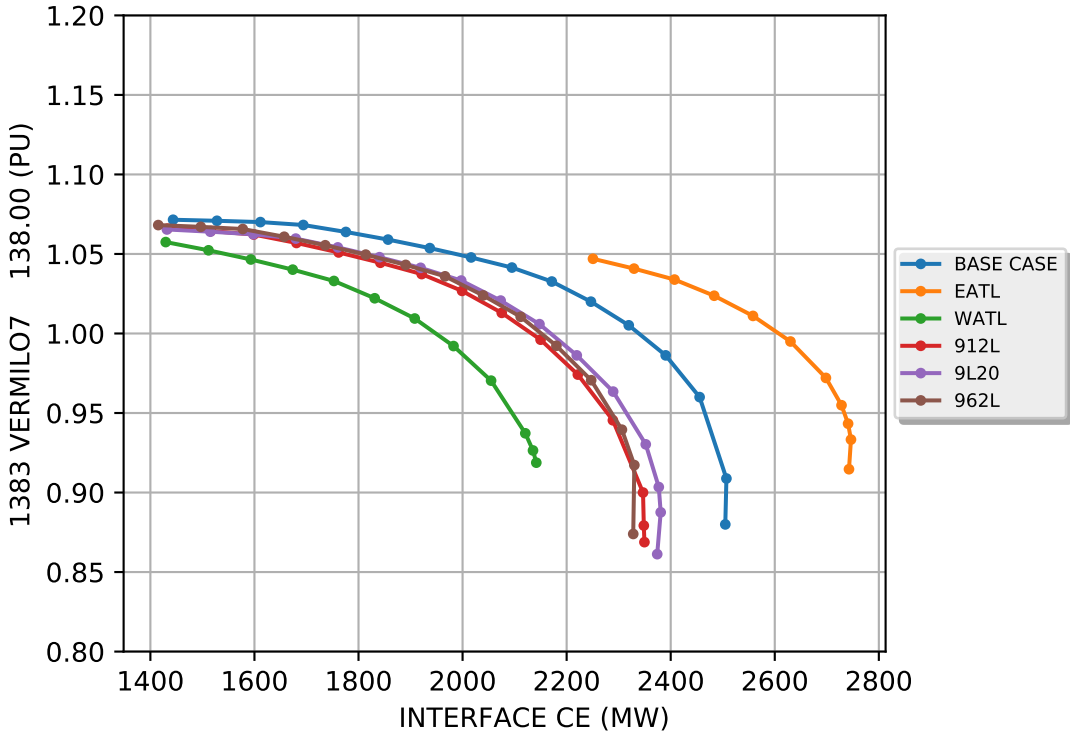


Figure: E-3-18

Case: M4, Option: BOTH2

Min Voltage: 0.82 PU, Min Margin: 22.0%

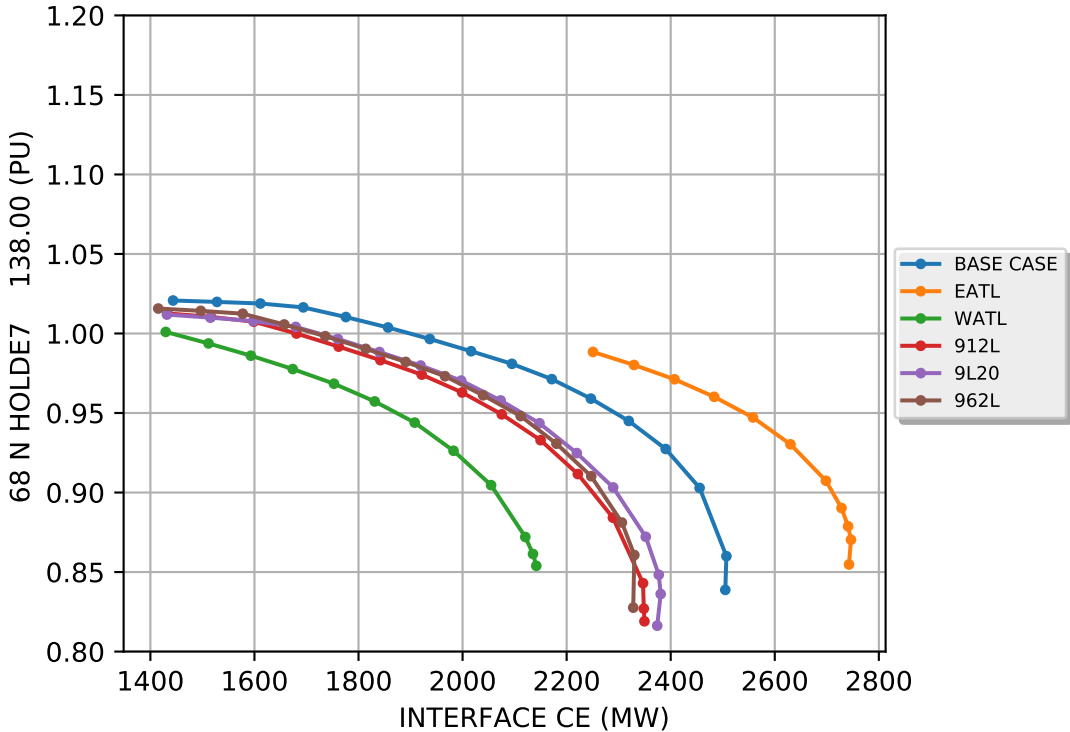


Figure: E-3-19

Case: M4, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 22.0%

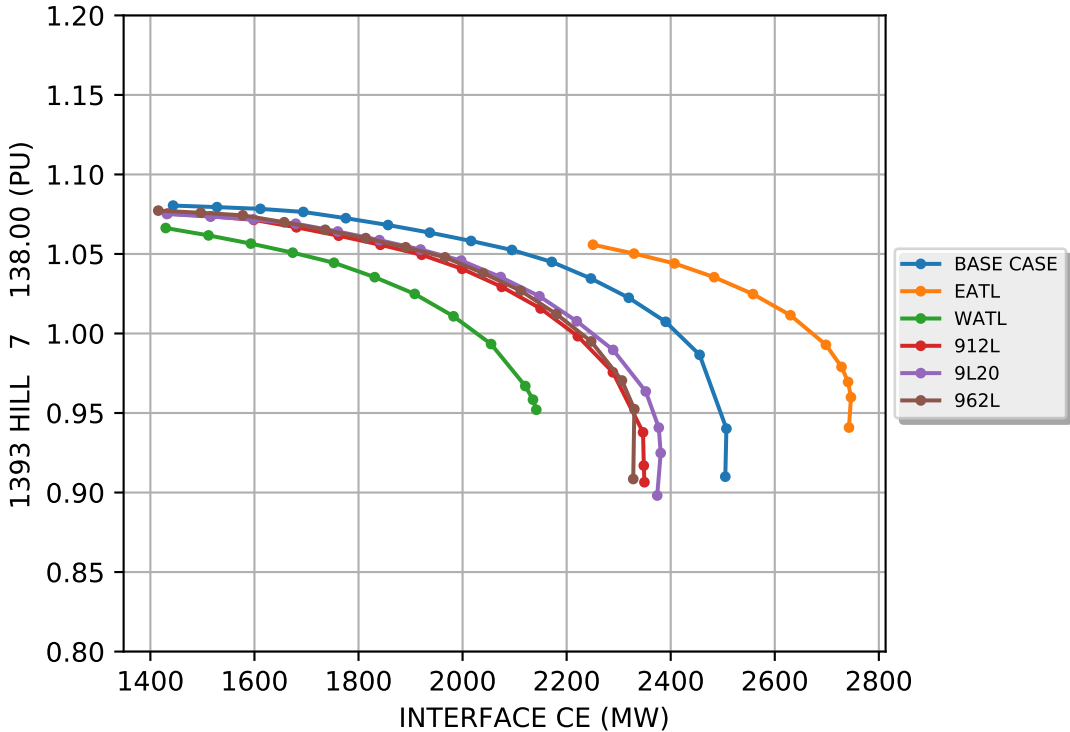


Figure: E-3-20

Case: M1, Option: BOTH2

Min Voltage: 0.88 PU, Min Margin: 39.1%

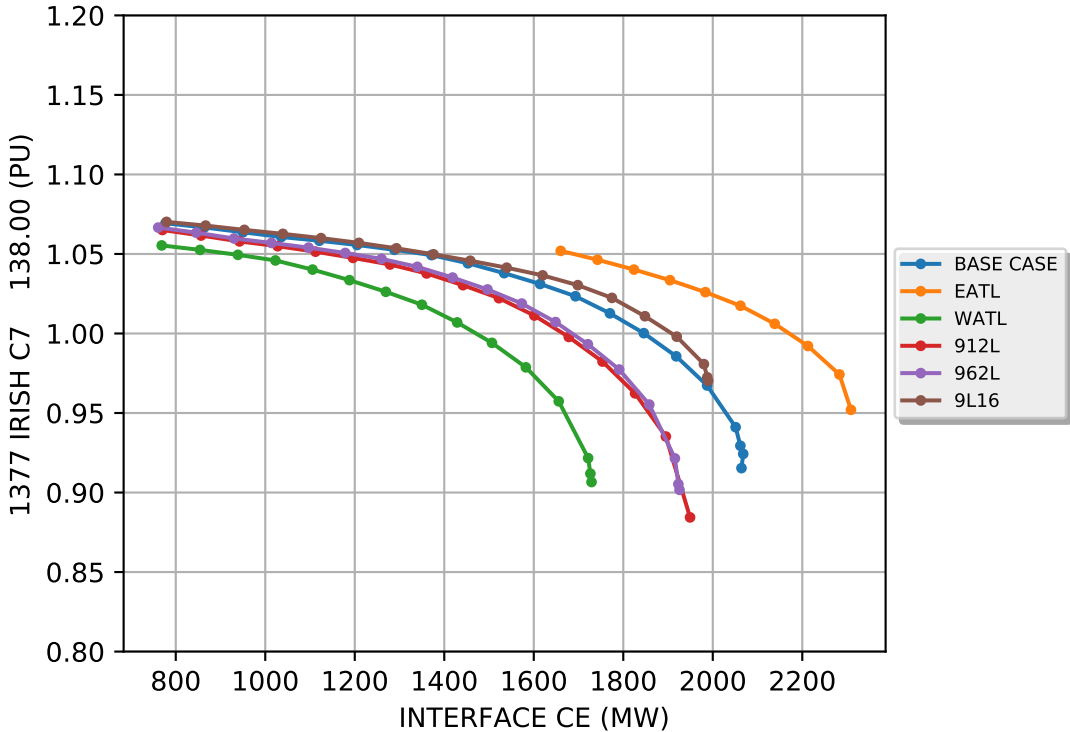


Figure: E-3-21

Case: M1, Option: BOTH2

Min Voltage: 0.85 PU, Min Margin: 39.1%

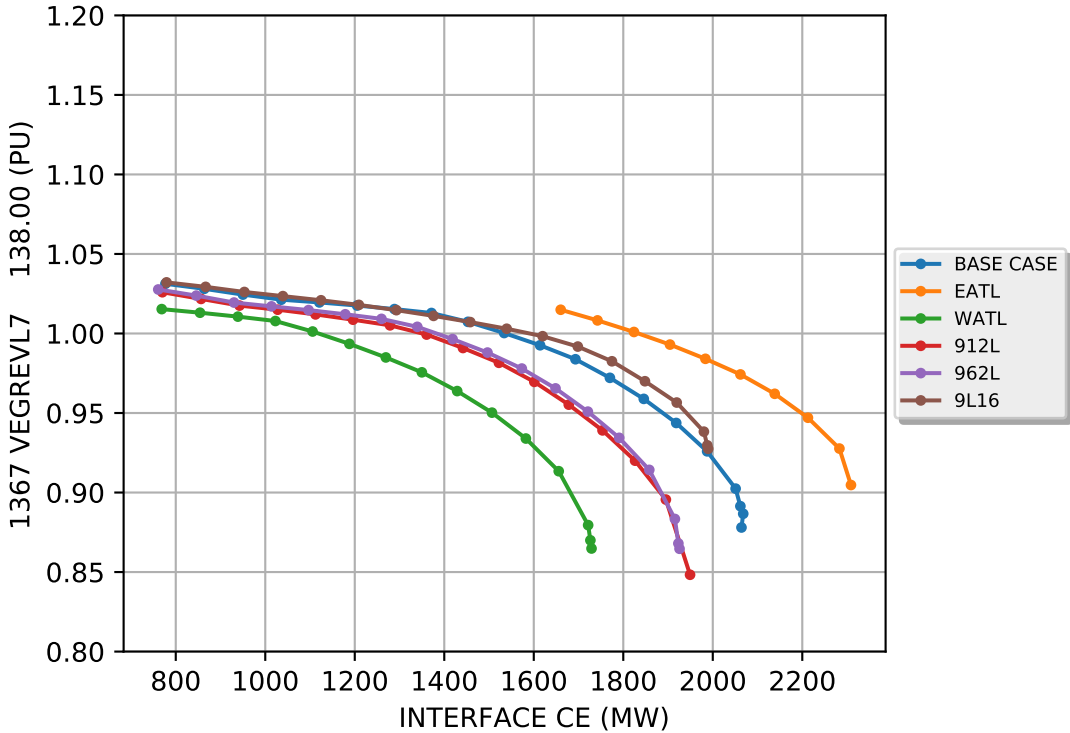


Figure: E-3-22

Case: M1, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 39.1%

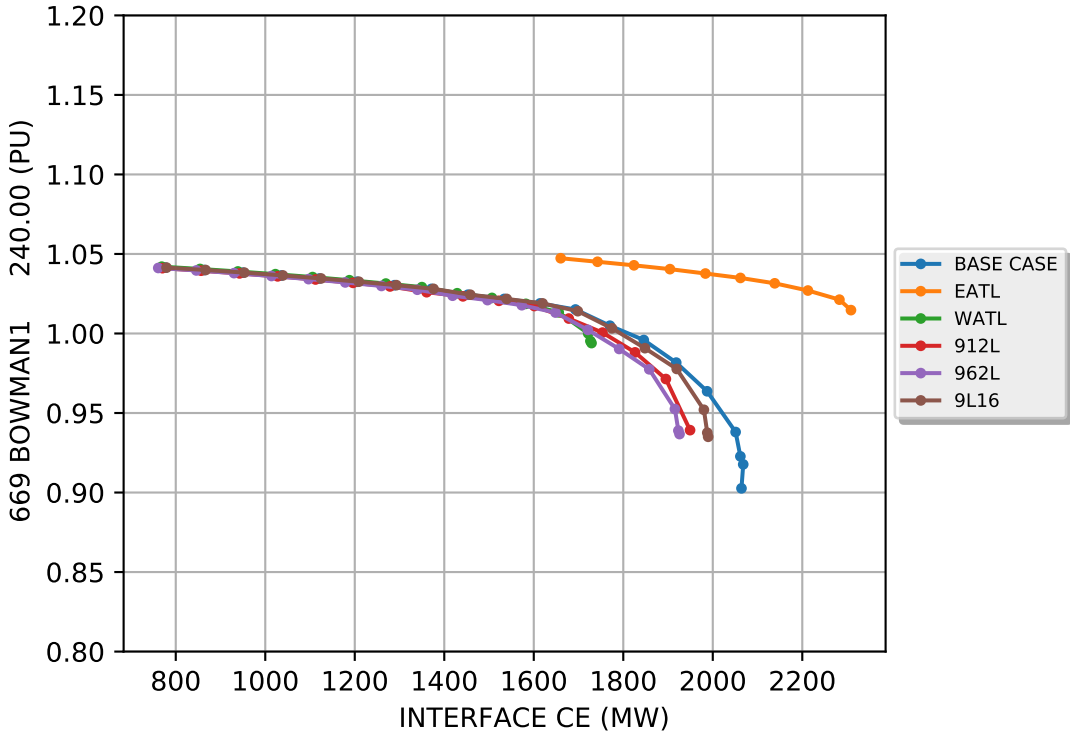


Figure: E-3-23

Case: M1, Option: BOTH2

Min Voltage: 0.87 PU, Min Margin: 39.1%

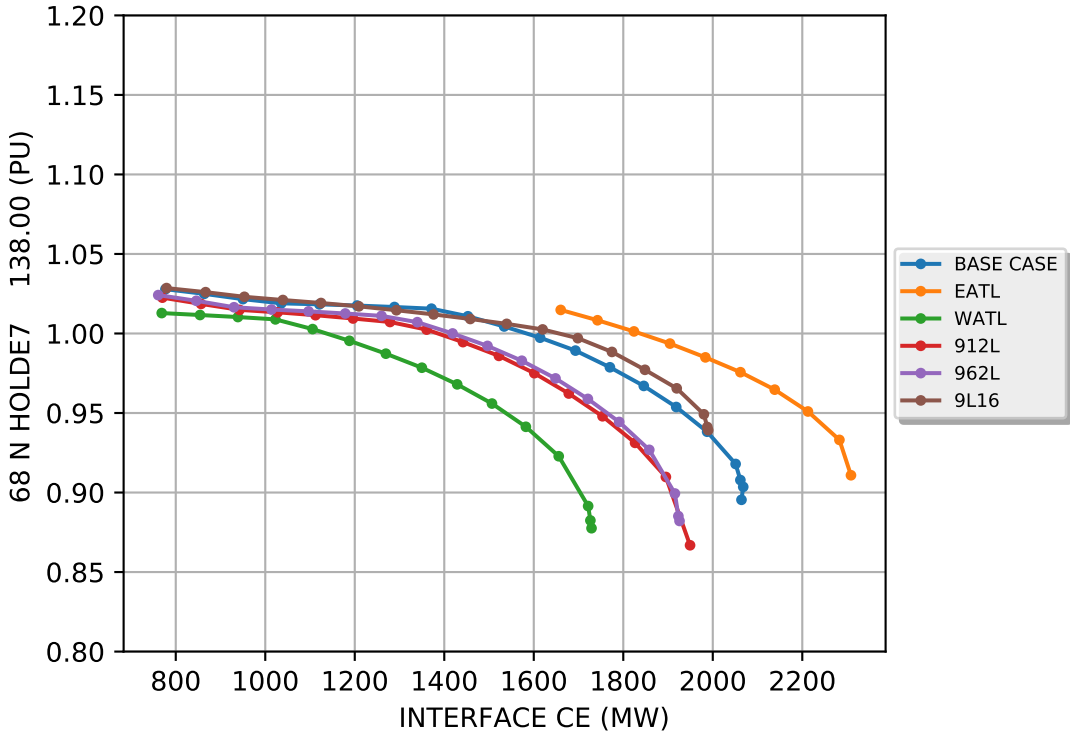


Figure: E-3-24

Case: M1, Option: BOTH2

Min Voltage: 0.91 PU, Min Margin: 39.1%

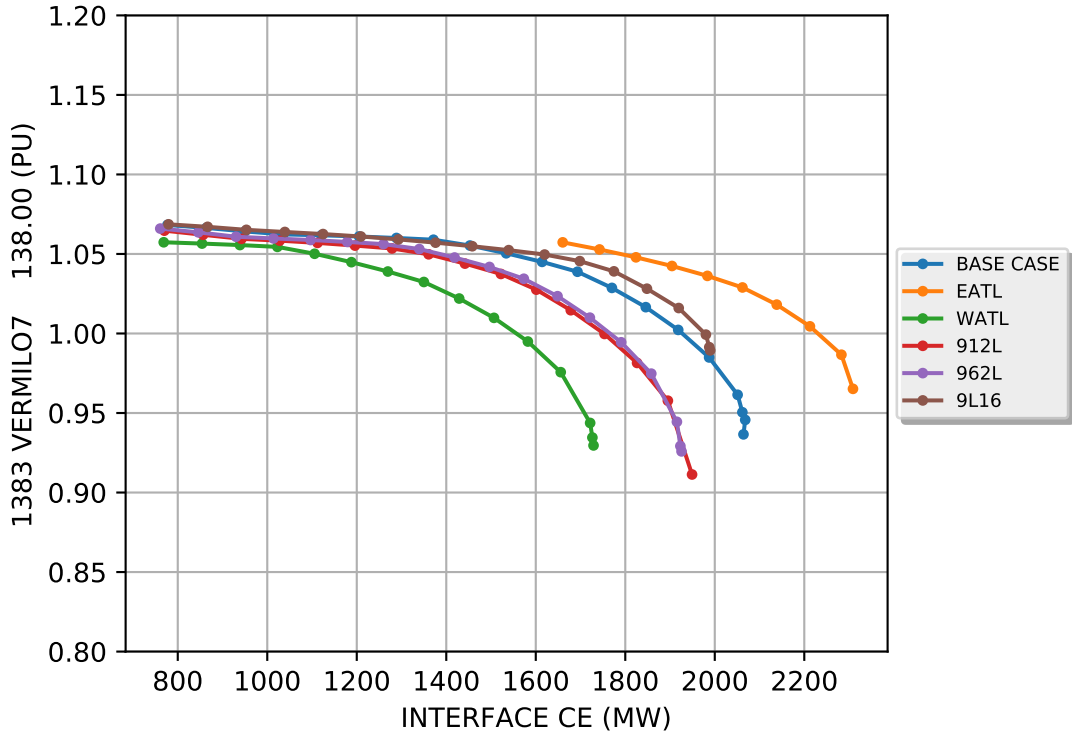


Figure: E-3-25

Case: M1, Option: BOTH2

Min Voltage: 0.94 PU, Min Margin: 39.1%

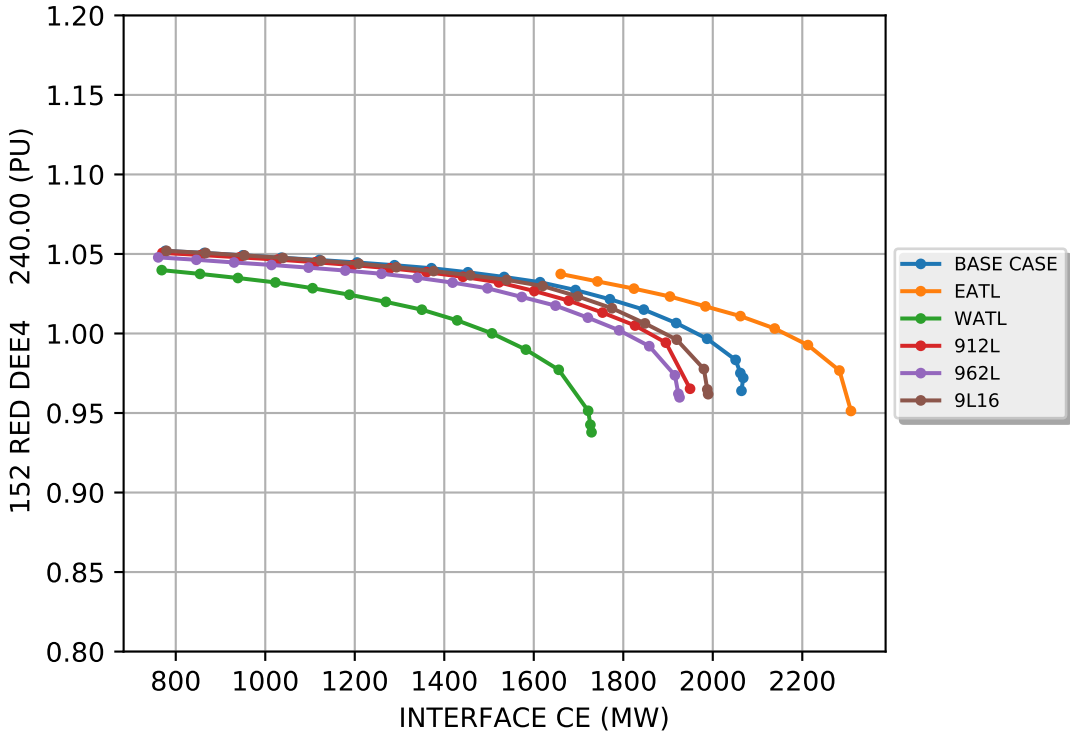


Figure: E-3-26

Case: M1, Option: BOTH2

Min Voltage: 0.92 PU, Min Margin: 39.1%

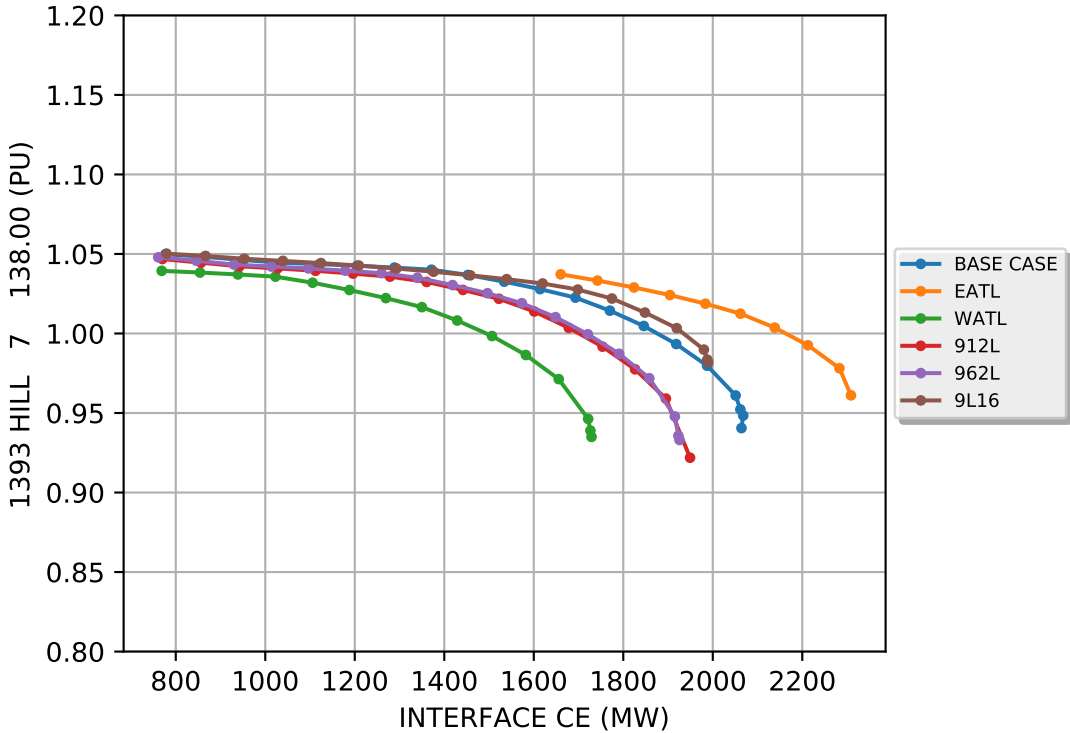


Figure: E-3-27

Case: M1, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 39.1%

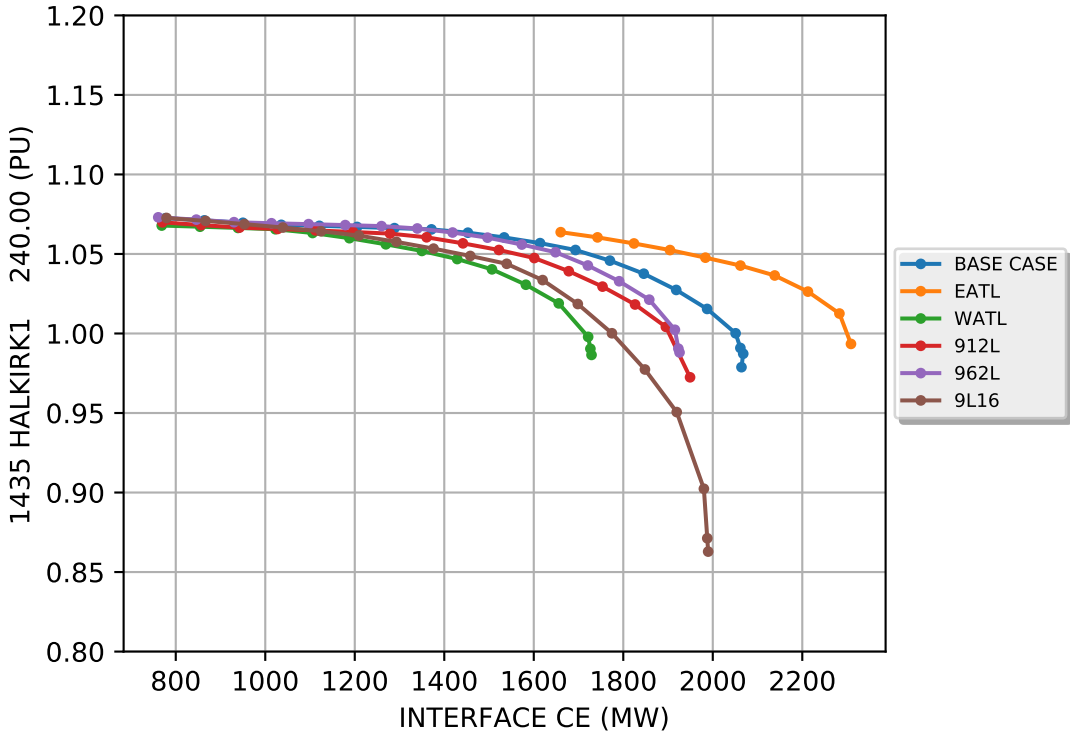


Figure: E-3-28

Case: M1, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 39.1%

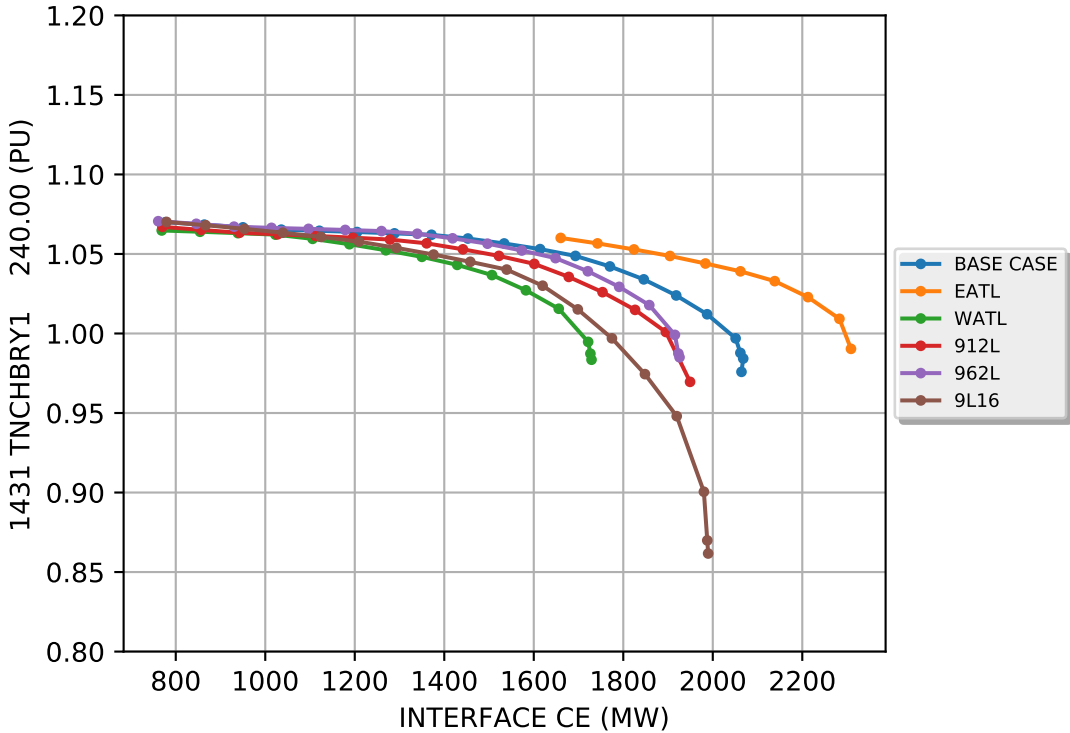


Figure: E-3-29

Case: M1, Option: BOTH2

Min Voltage: 0.93 PU, Min Margin: 39.1%

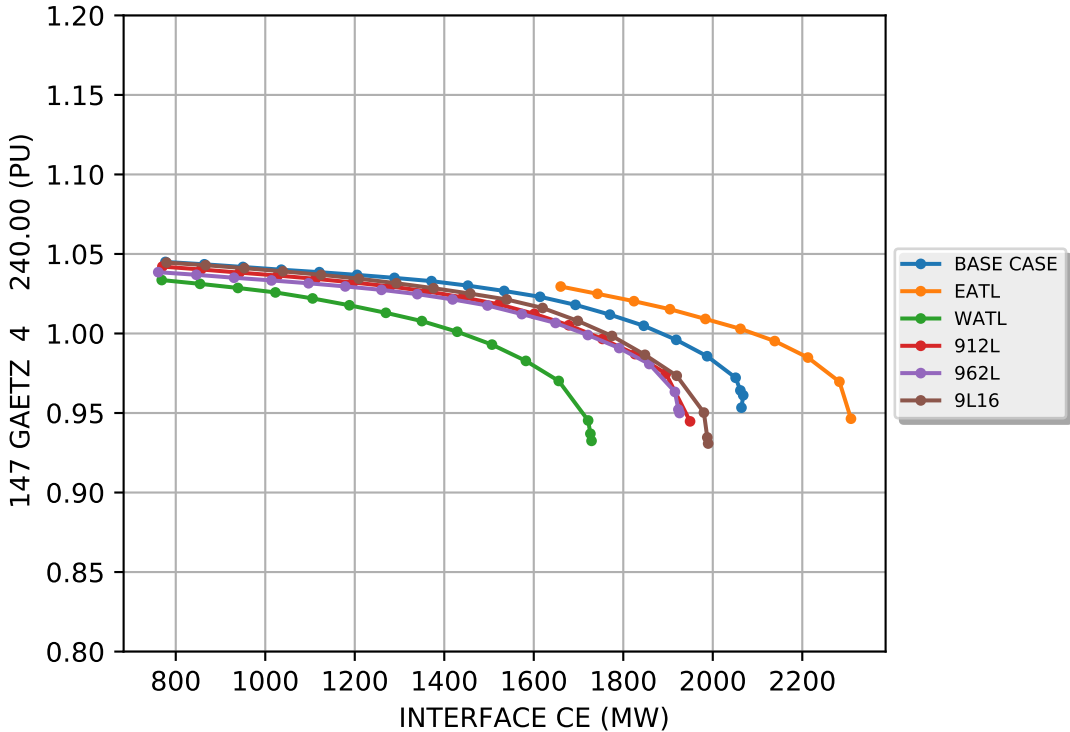


Figure: E-3-30

Case: H3, Option: BOTHC2

Min Voltage: 0.86 PU, Min Margin: 27.3%

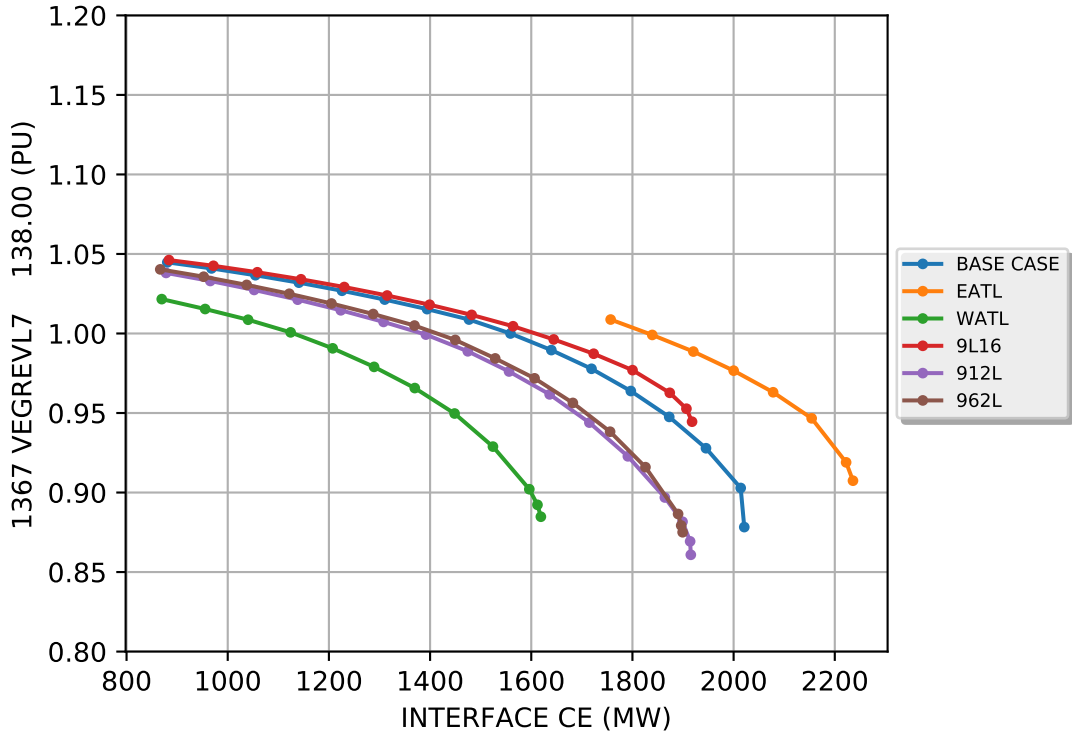


Figure: E-3-31

Case: H3, Option: BOTHC2

Min Voltage: 0.90 PU, Min Margin: 27.3%

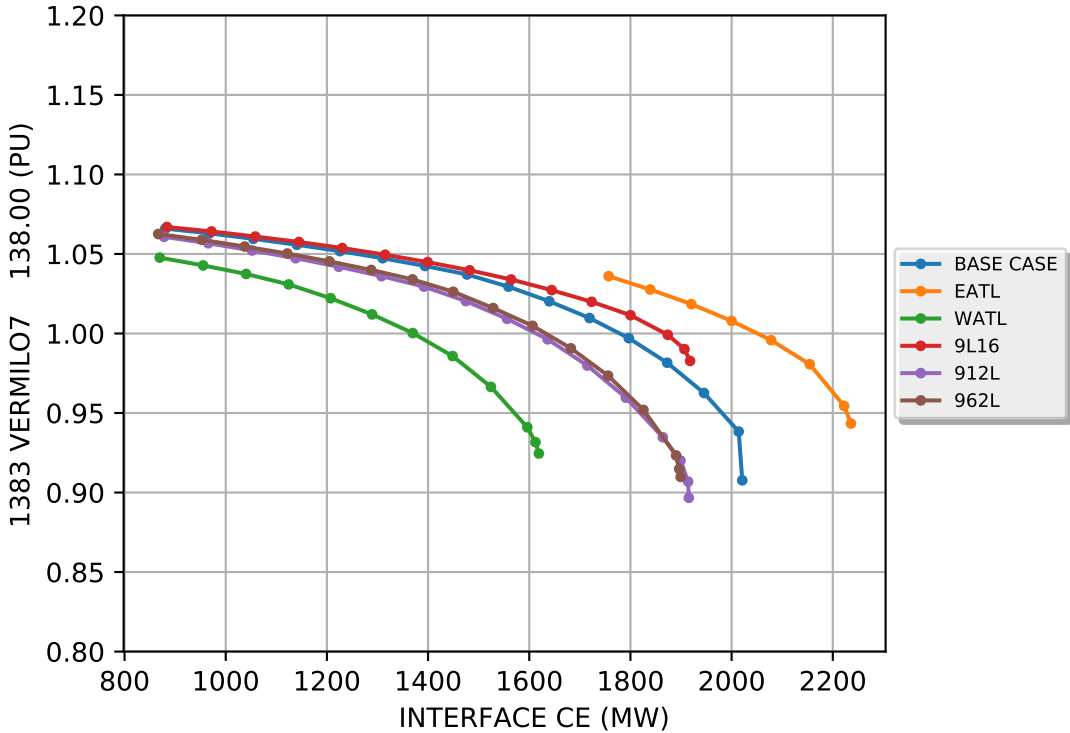


Figure: E-3-32

Case: H3, Option: BOTHC2

Min Voltage: 0.89 PU, Min Margin: 27.3%

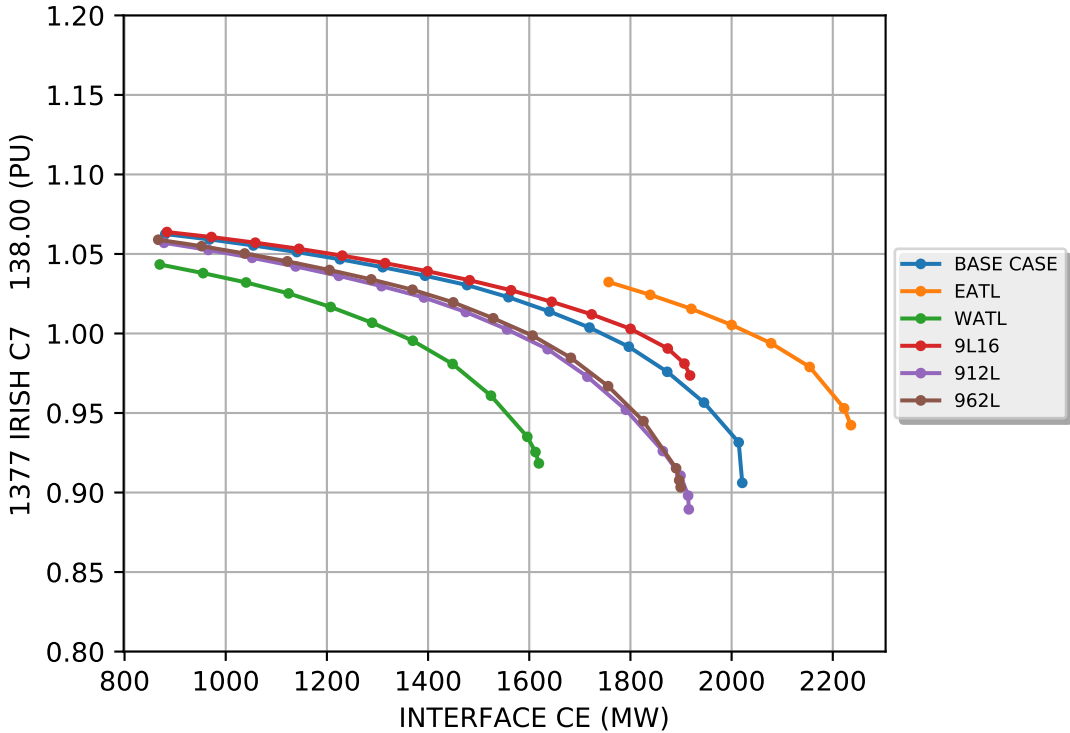


Figure: E-3-33

Case: H3, Option: BOTHC2

Min Voltage: 0.87 PU, Min Margin: 27.3%

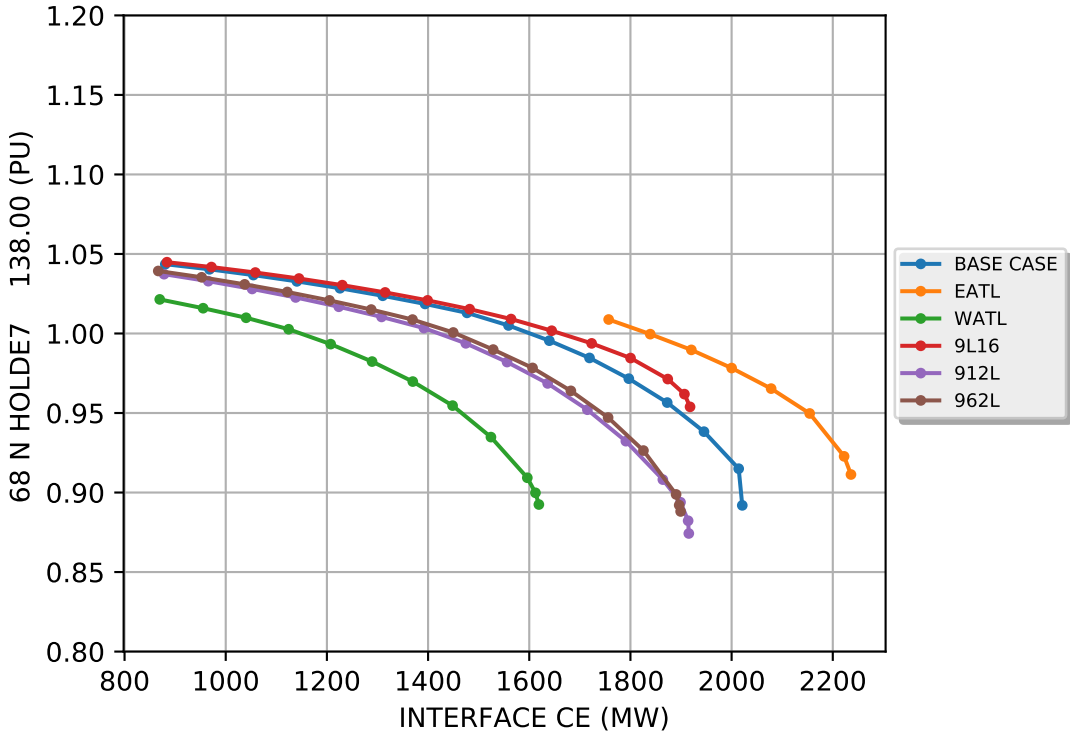


Figure: E-3-34

Case: H3, Option: BOTHC2

Min Voltage: 0.91 PU, Min Margin: 27.3%

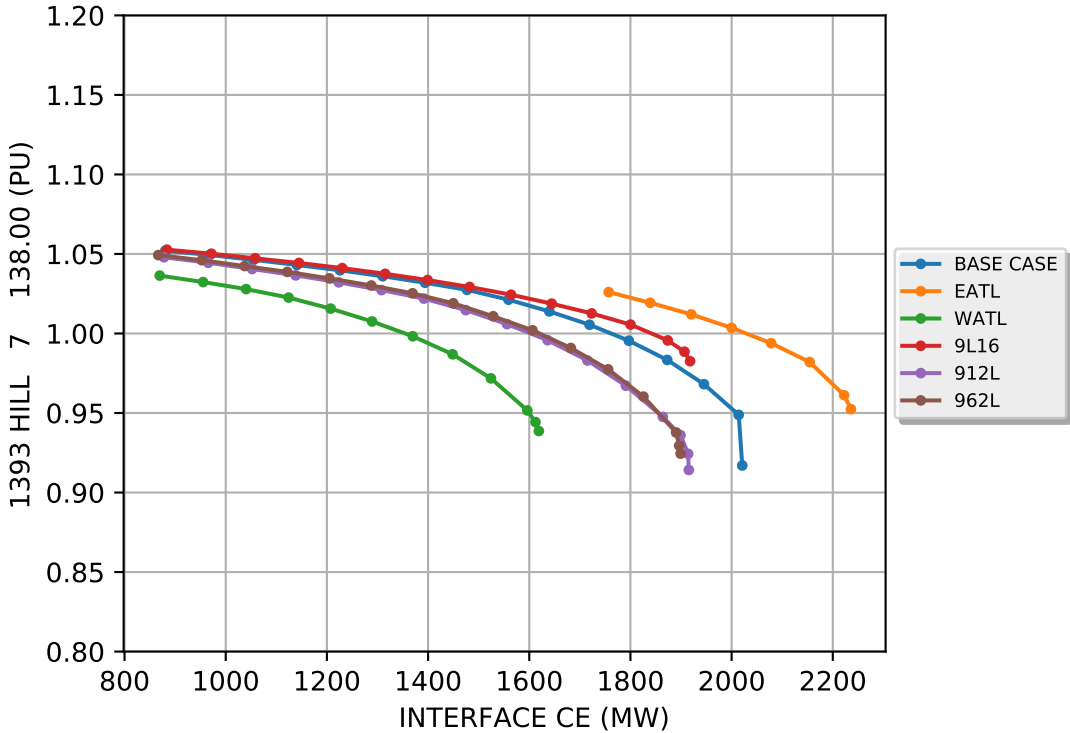


Figure: E-3-35

Case: H3, Option: BOTHC2

Min Voltage: 0.93 PU, Min Margin: 27.3%

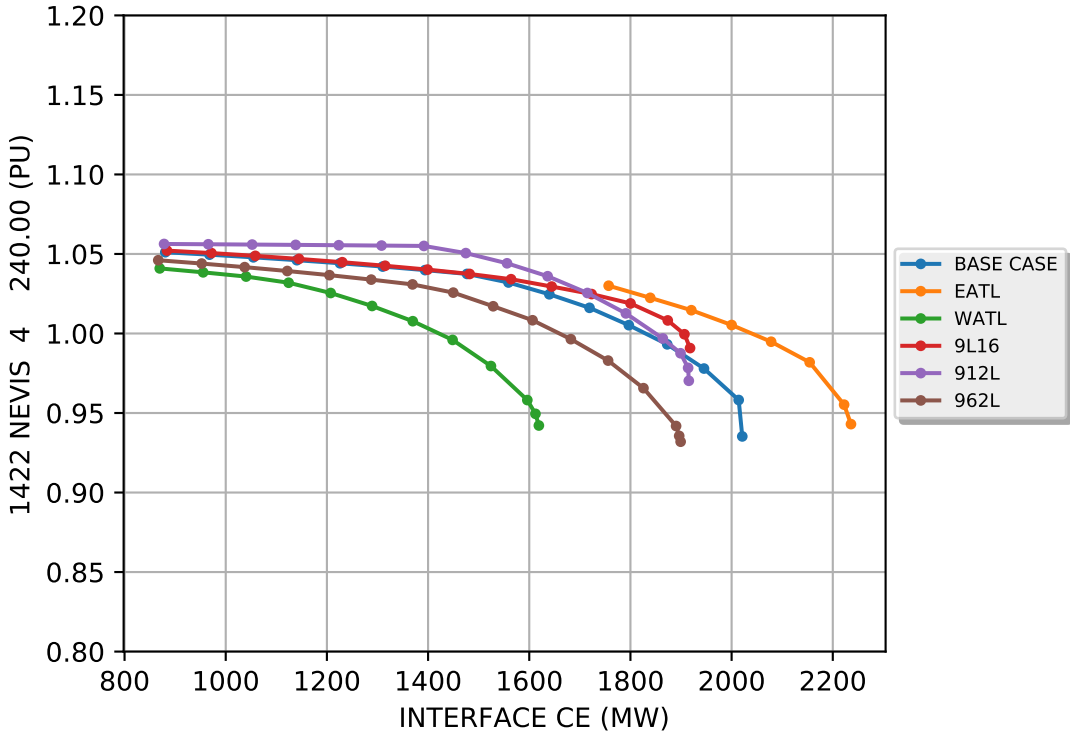


Figure: E-3-36

Case: H3, Option: BOTHC2

Min Voltage: 0.93 PU, Min Margin: 27.3%

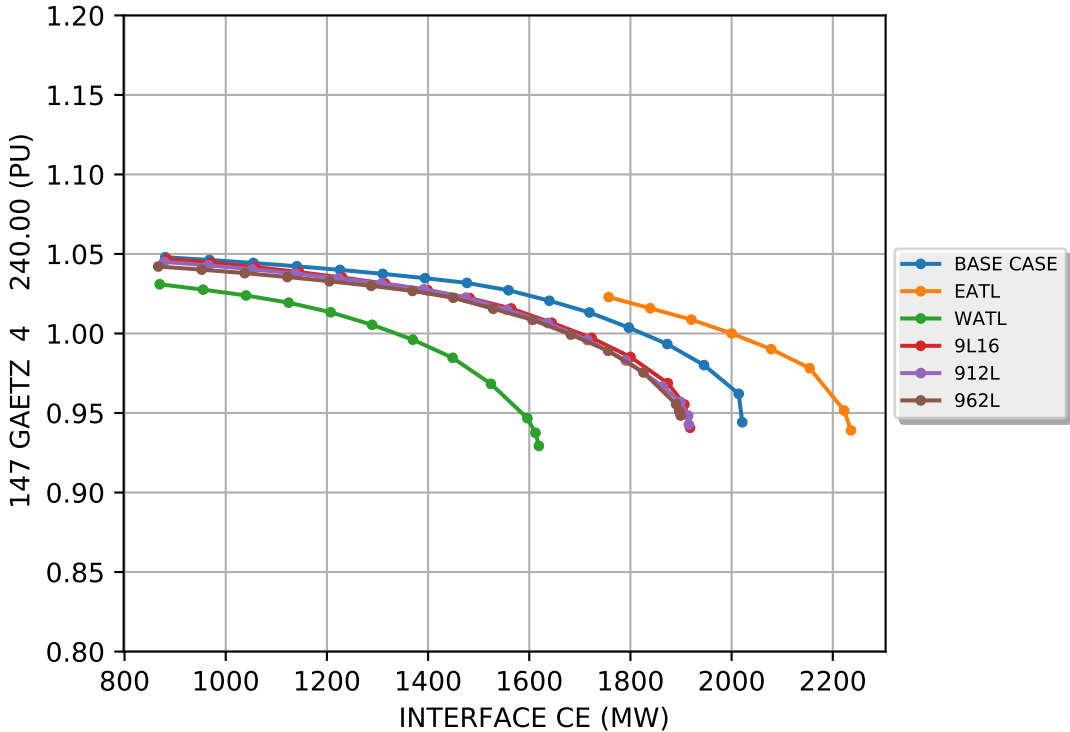


Figure: E-3-37

Case: H3, Option: BOTHC2

Min Voltage: 0.87 PU, Min Margin: 27.3%

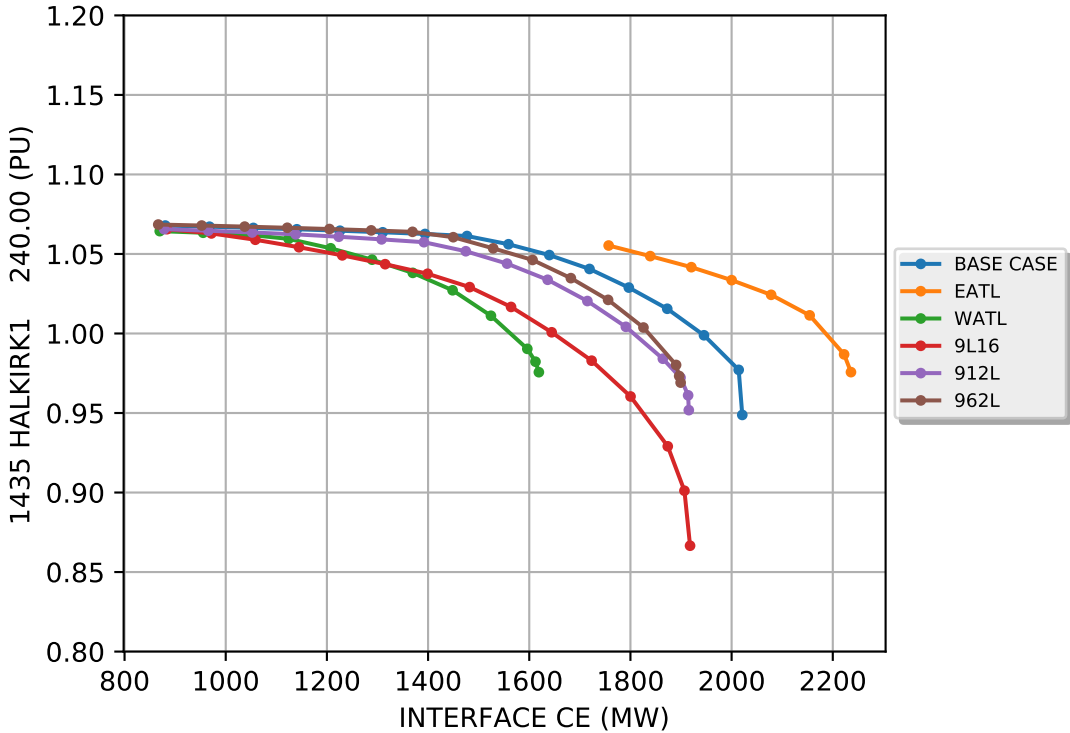


Figure: E-3-38

Case: H3, Option: BOTHC2

Min Voltage: 0.87 PU, Min Margin: 27.3%

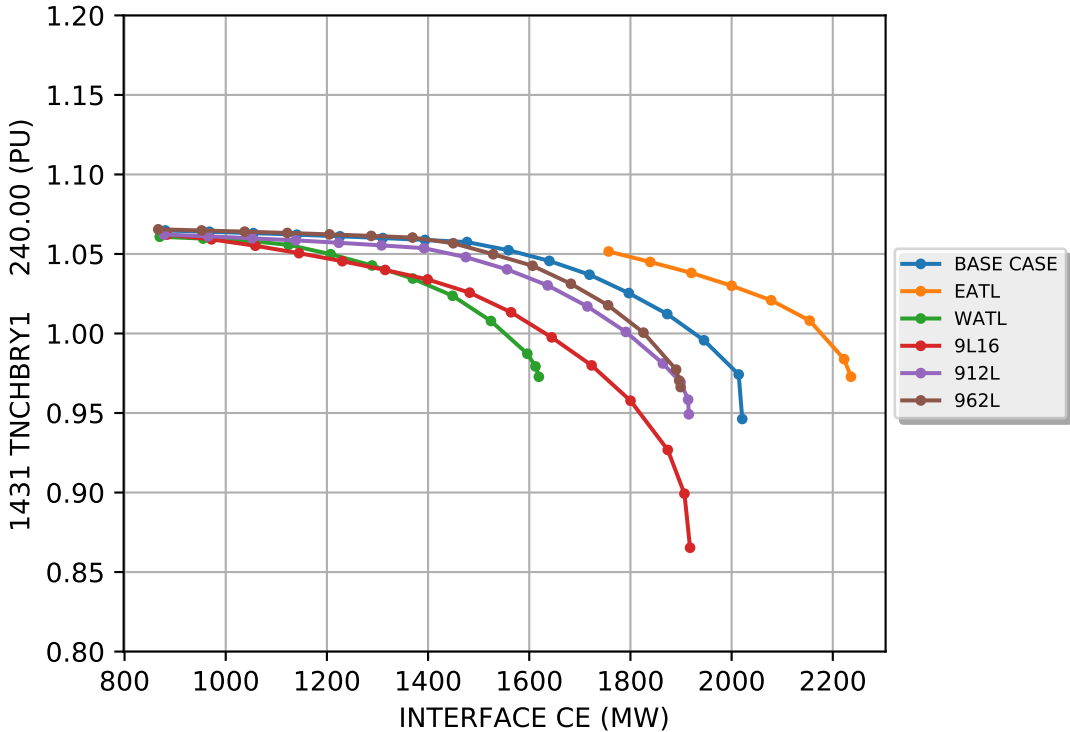


Figure: E-3-39

Case: M5, Option: BOTH2

Min Voltage: 0.82 PU, Min Margin: 21.2%

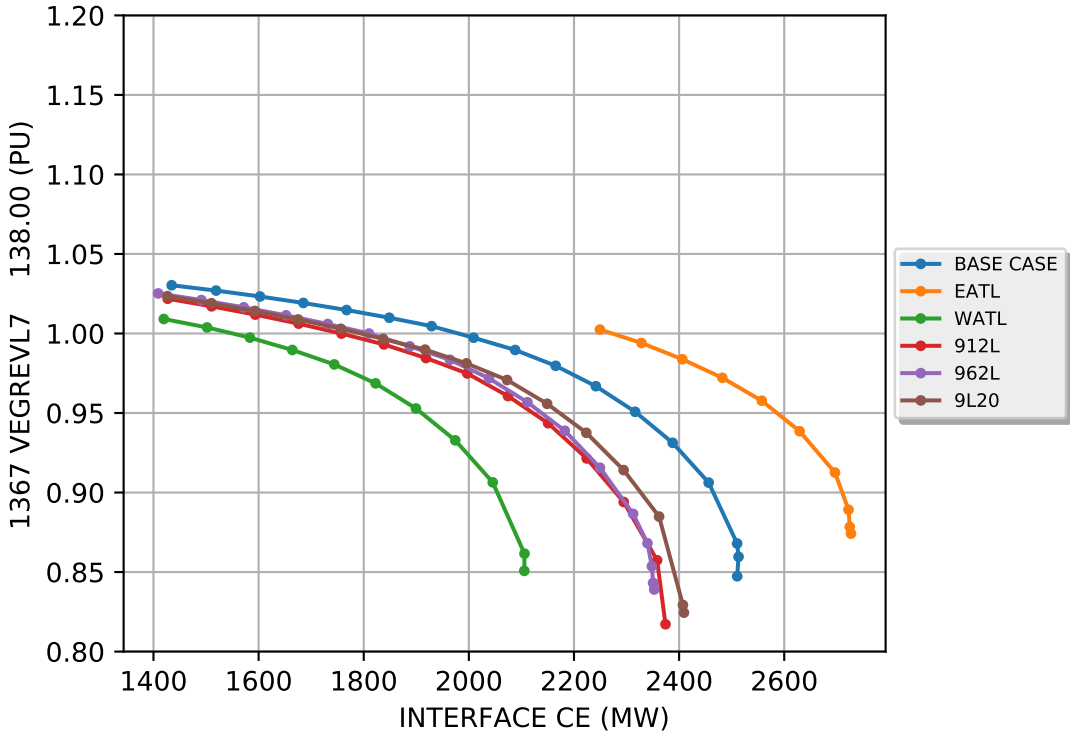


Figure: E-3-40

Case: M5, Option: BOTH2

Min Voltage: 0.84 PU, Min Margin: 21.2%

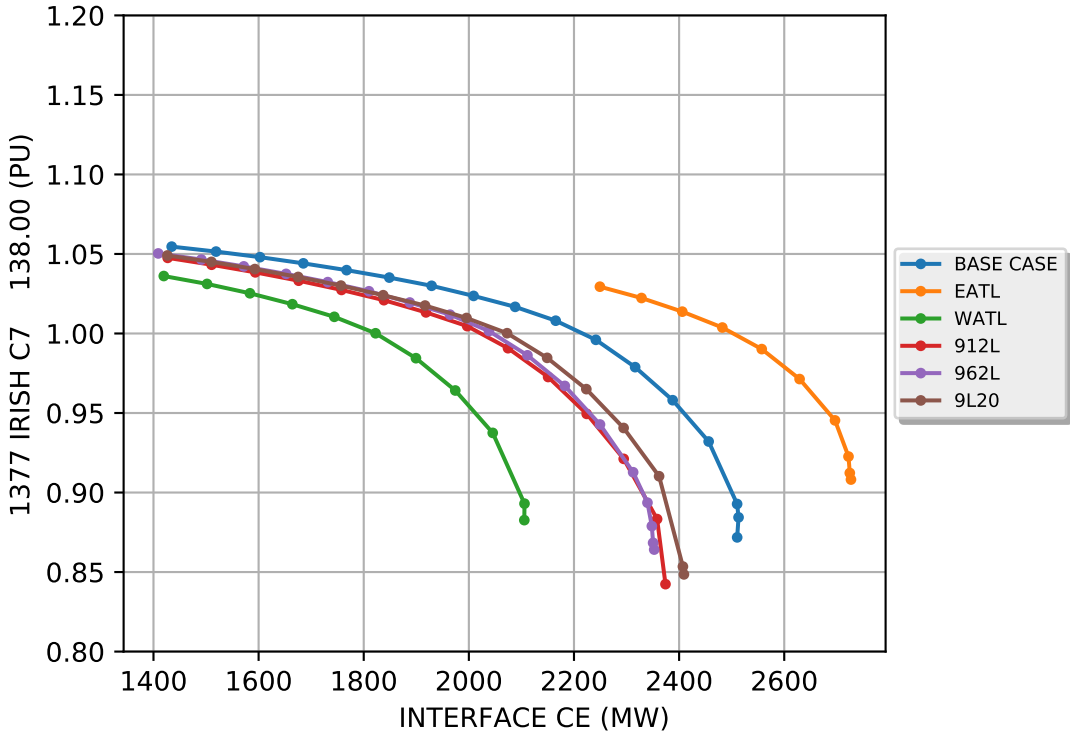


Figure: E-3-41

Case: M5, Option: BOTH2

Min Voltage: 0.84 PU, Min Margin: 21.2%

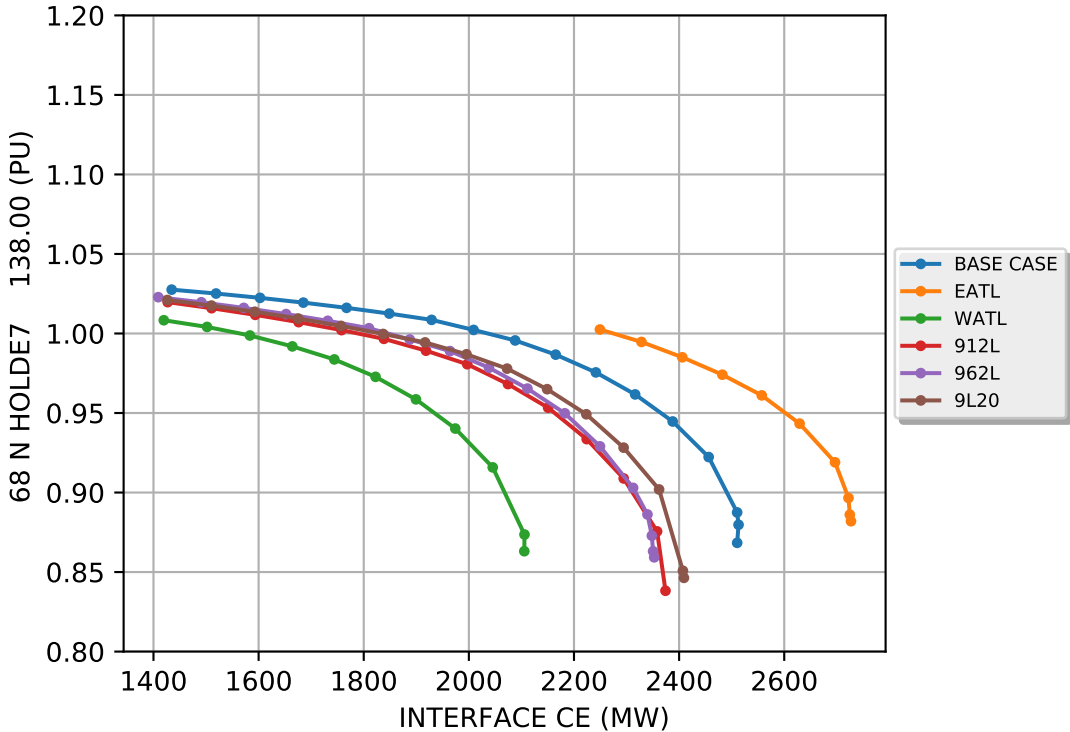


Figure: E-3-42

Case: M5, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 21.2%

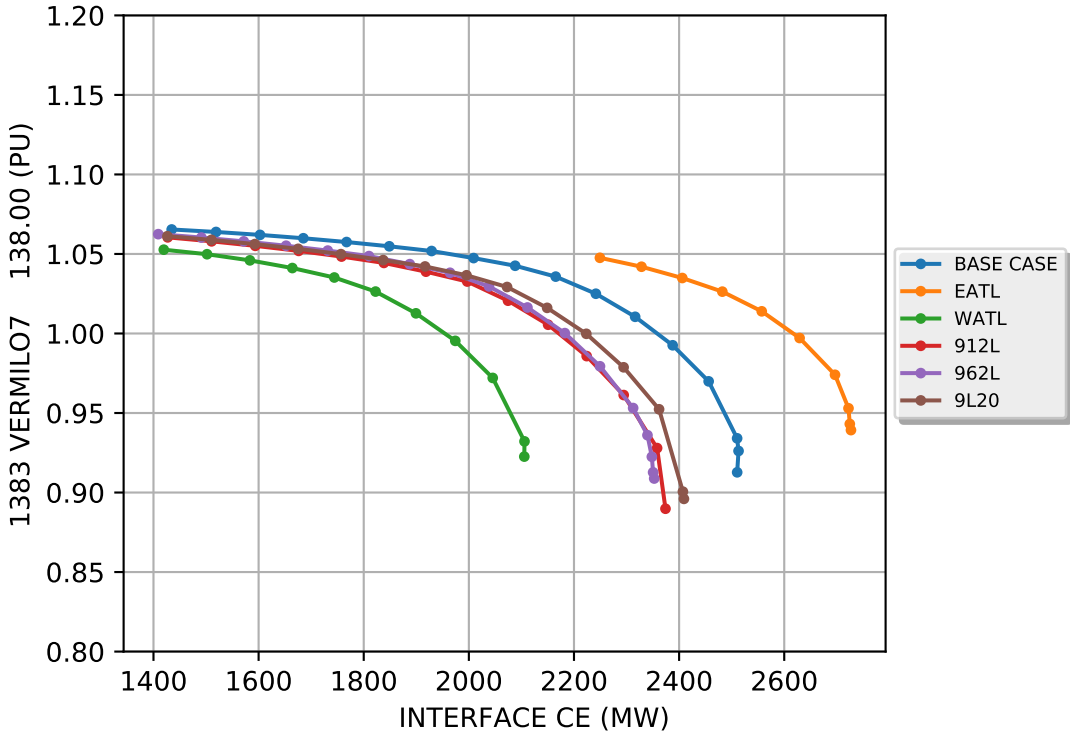


Figure: E-3-43

Case: M5, Option: BOTH2

Min Voltage: 0.92 PU, Min Margin: 21.2%

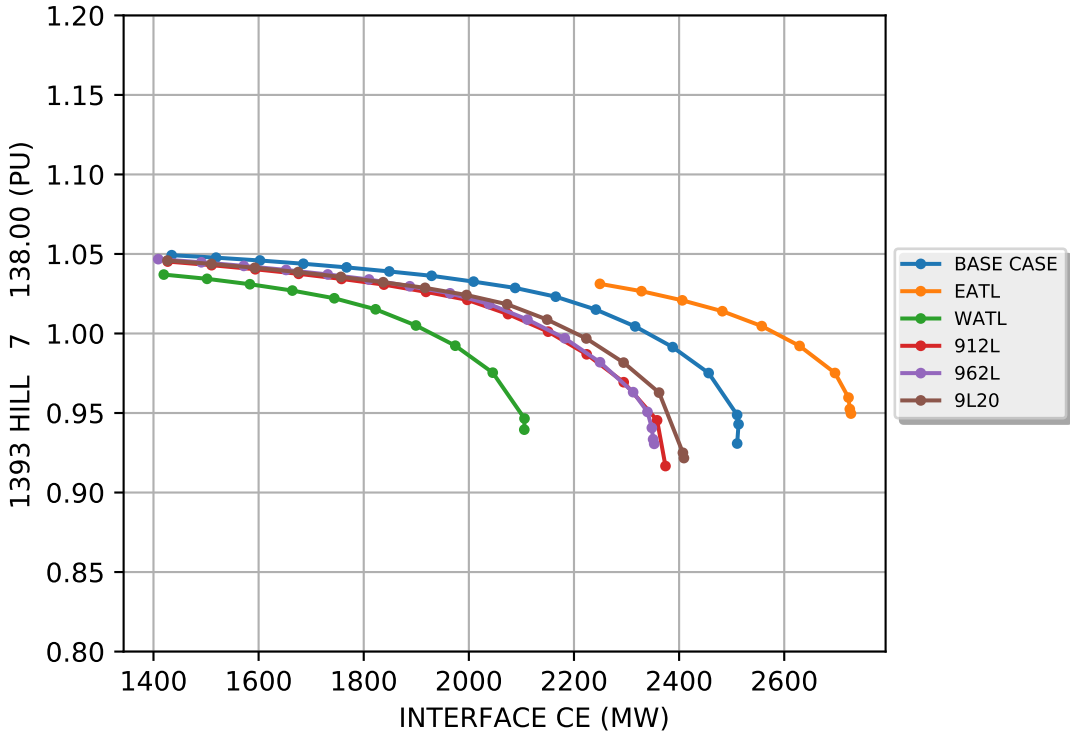


Figure: E-3-44

Case: M5, Option: BOTH2

Min Voltage: 0.92 PU, Min Margin: 21.2%

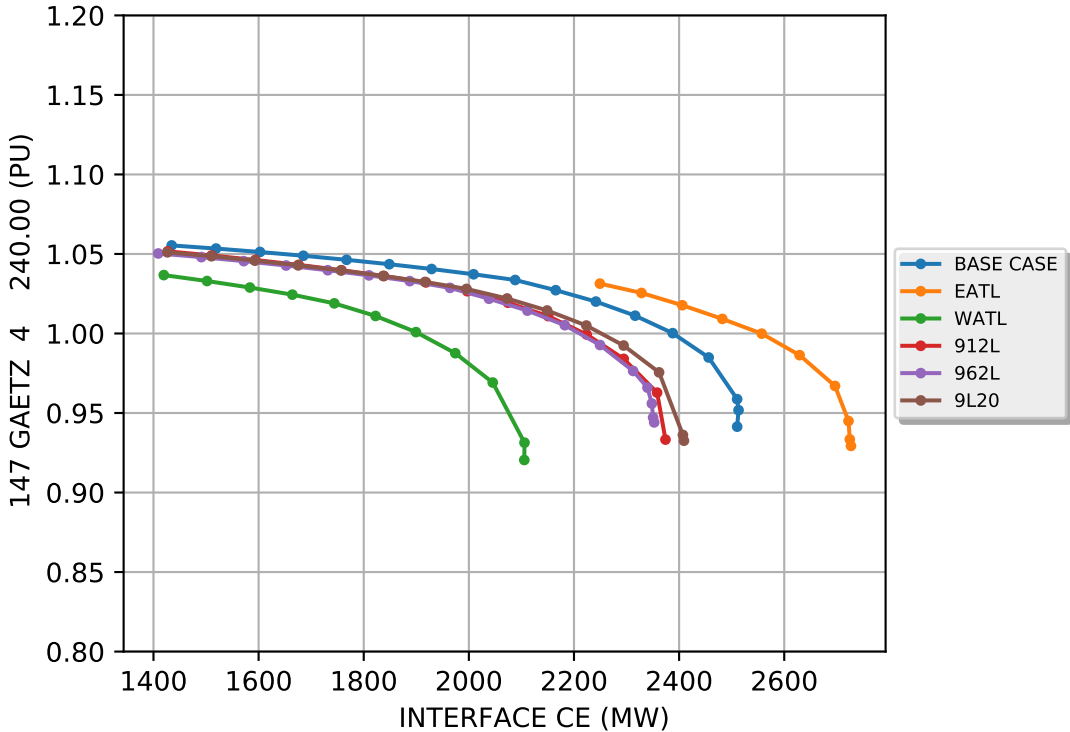


Figure: E-3-45

Case: M5, Option: BOTH2

Min Voltage: 0.93 PU, Min Margin: 21.2%

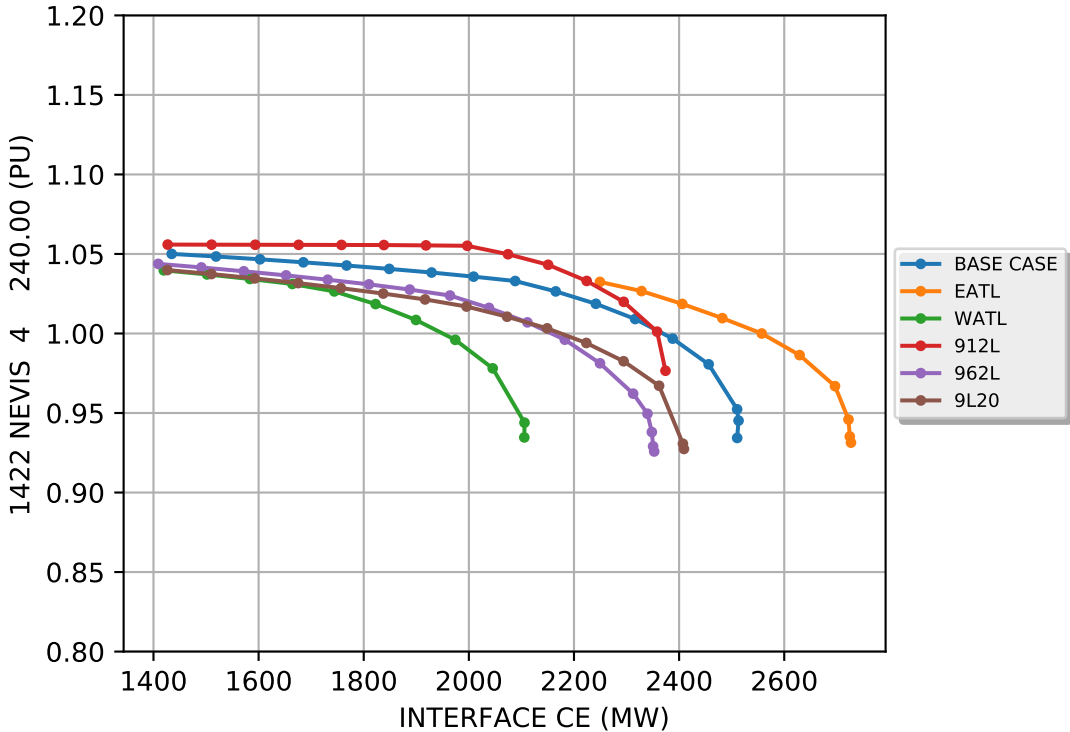


Figure: E-3-46

Case: M2, Option: BOTH2

Min Voltage: 0.84 PU, Min Margin: 30.7%

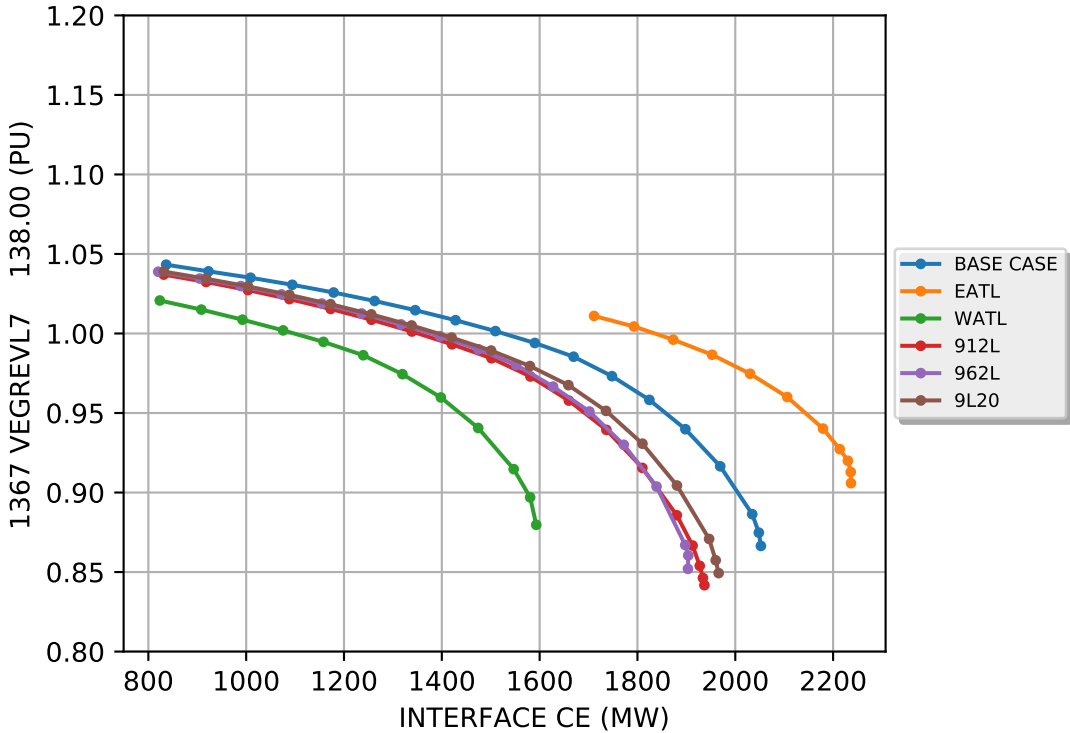


Figure: E-3-47

Case: M2, Option: BOTH2

Min Voltage: 0.87 PU, Min Margin: 30.7%

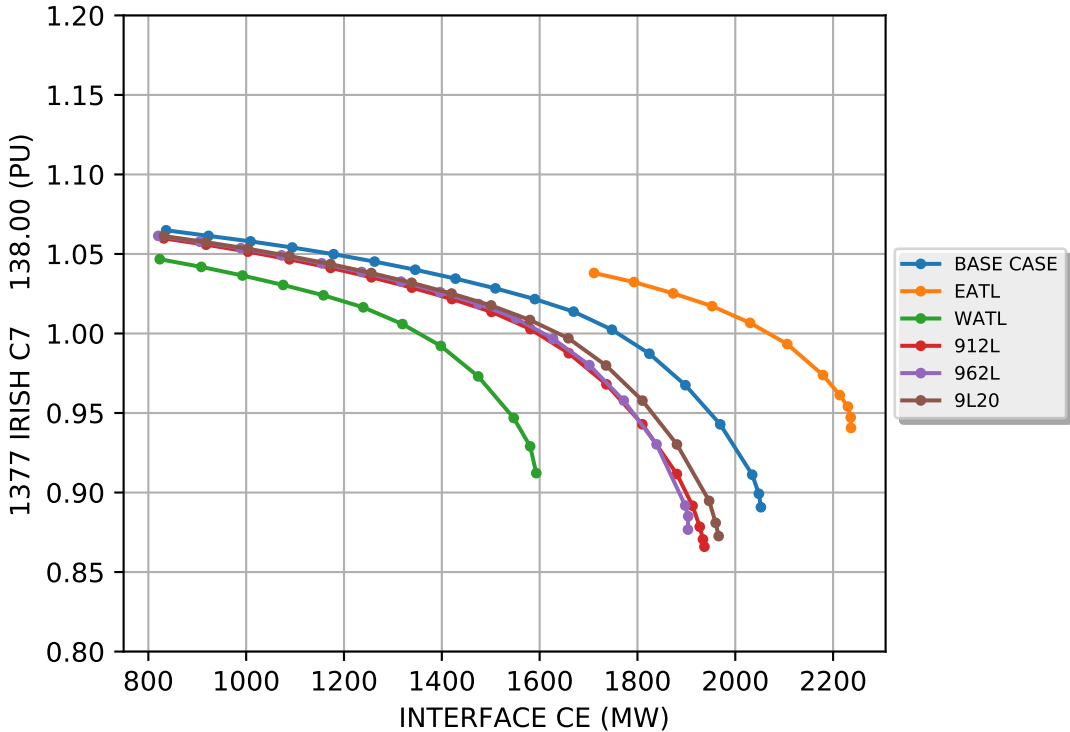


Figure: E-3-48

Case: M2, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 30.7%

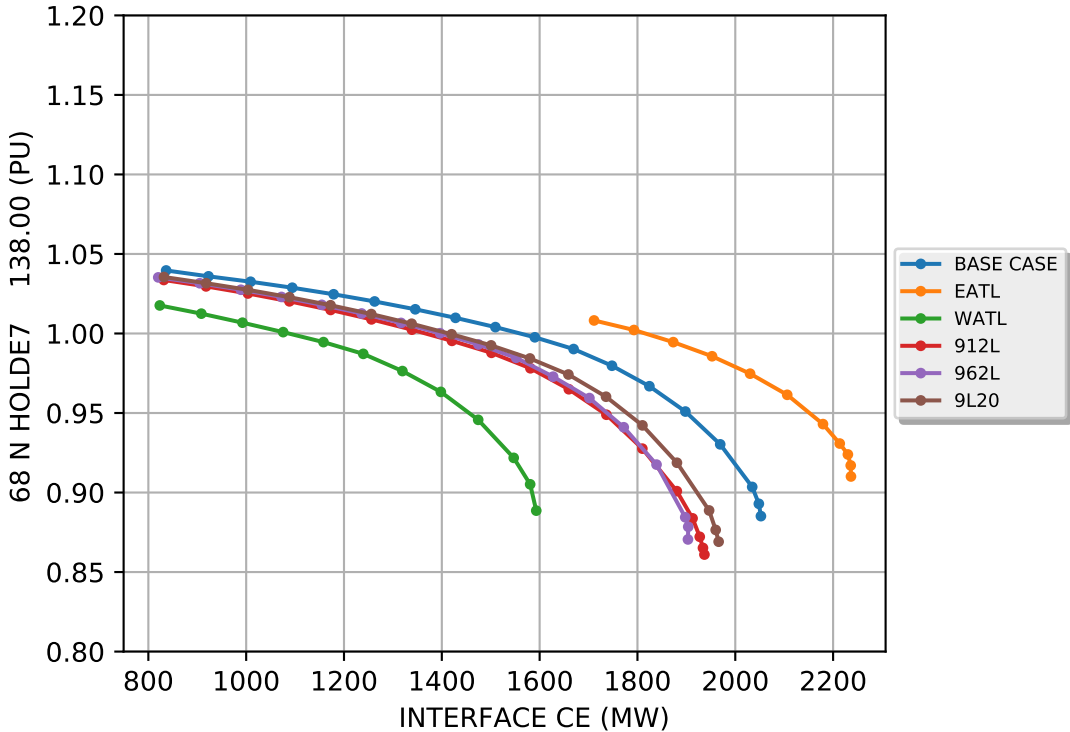


Figure: E-3-49

Case: M2, Option: BOTH2

Min Voltage: 0.91 PU, Min Margin: 30.7%

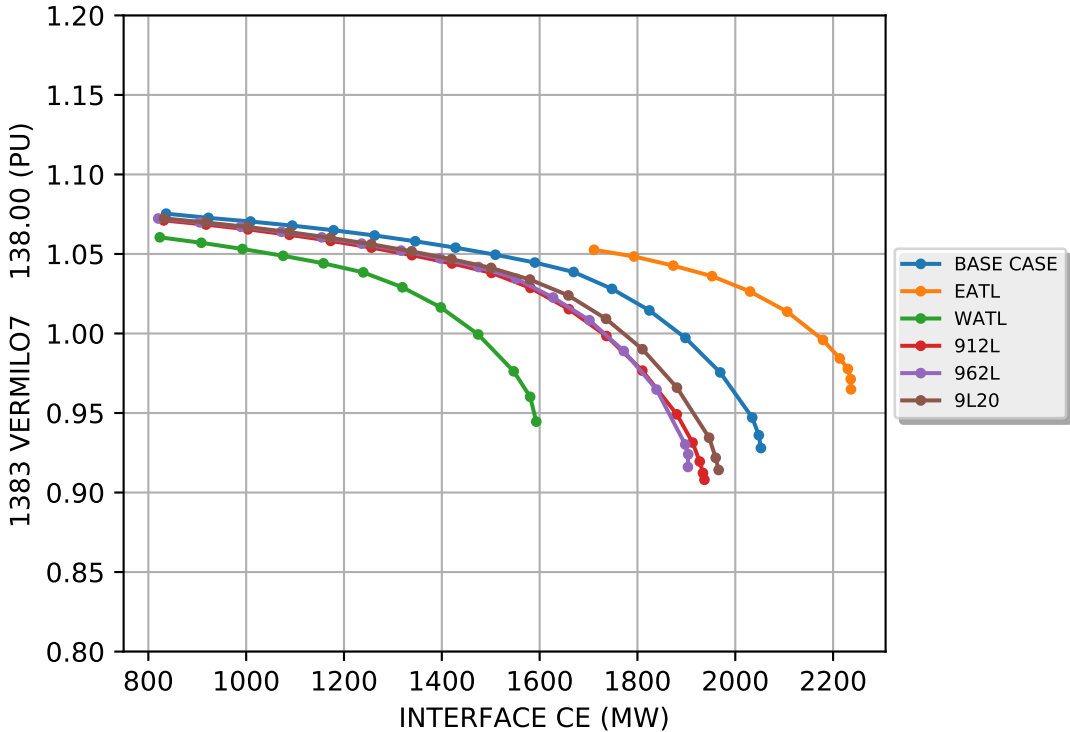


Figure: E-3-50

Case: M2, Option: BOTH2

Min Voltage: 0.93 PU, Min Margin: 30.7%

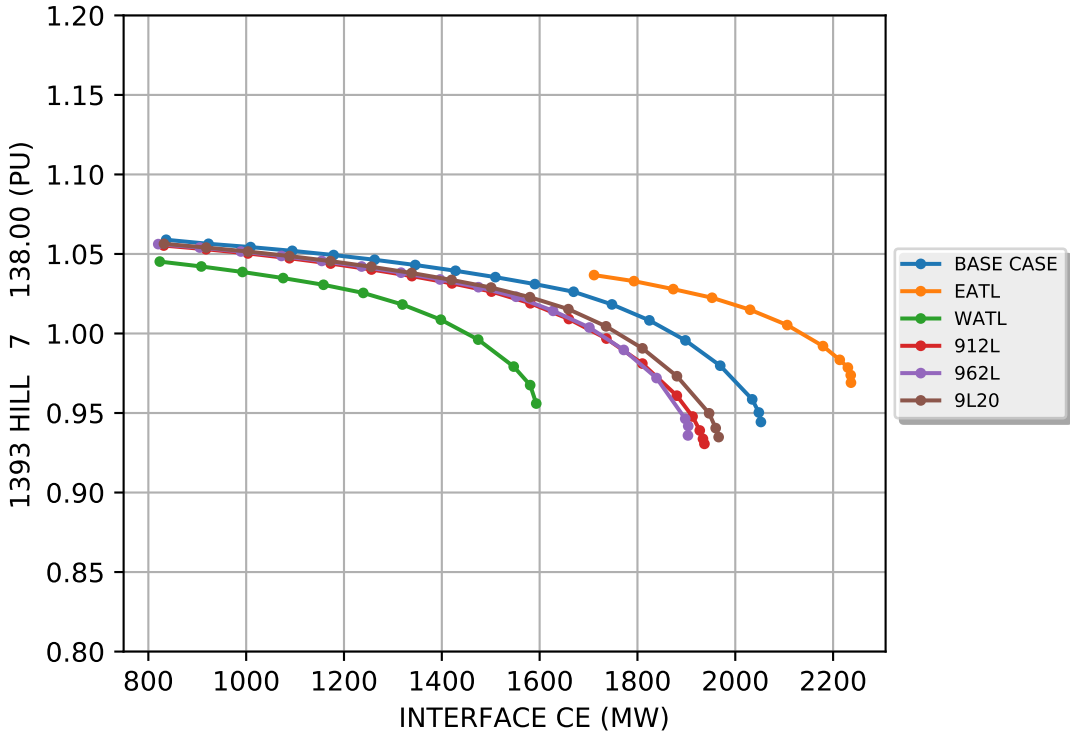


Figure: E-3-51

Case: M2, Option: BOTH2

Min Voltage: 0.93 PU, Min Margin: 30.7%

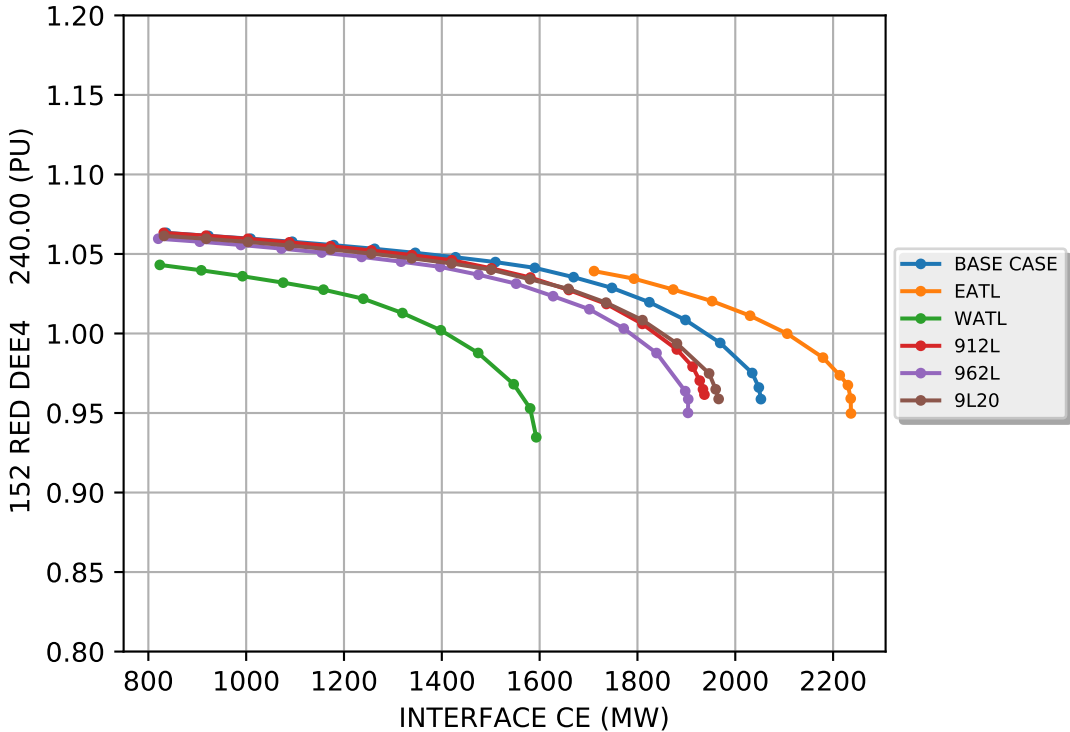


Figure: E-3-52

Case: M2, Option: BOTH2

Min Voltage: 0.94 PU, Min Margin: 30.7%

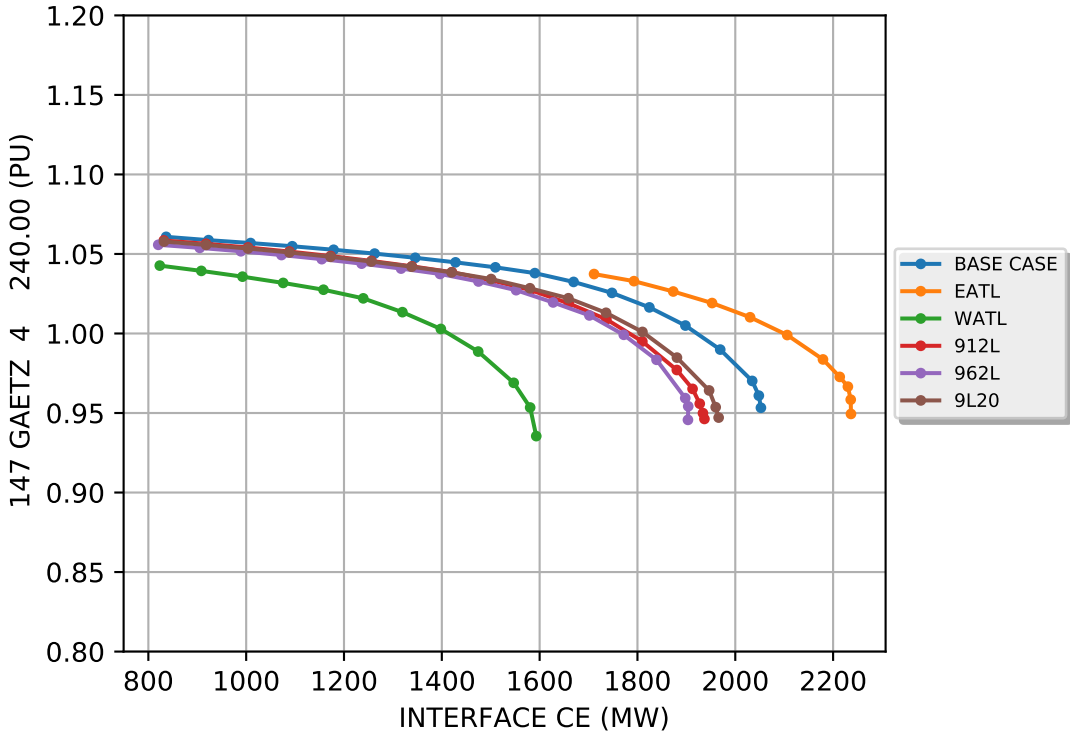


Figure: E-3-53

Case: M3, Option: BOTH2

Min Voltage: 0.92 PU, Min Margin: 63.6%

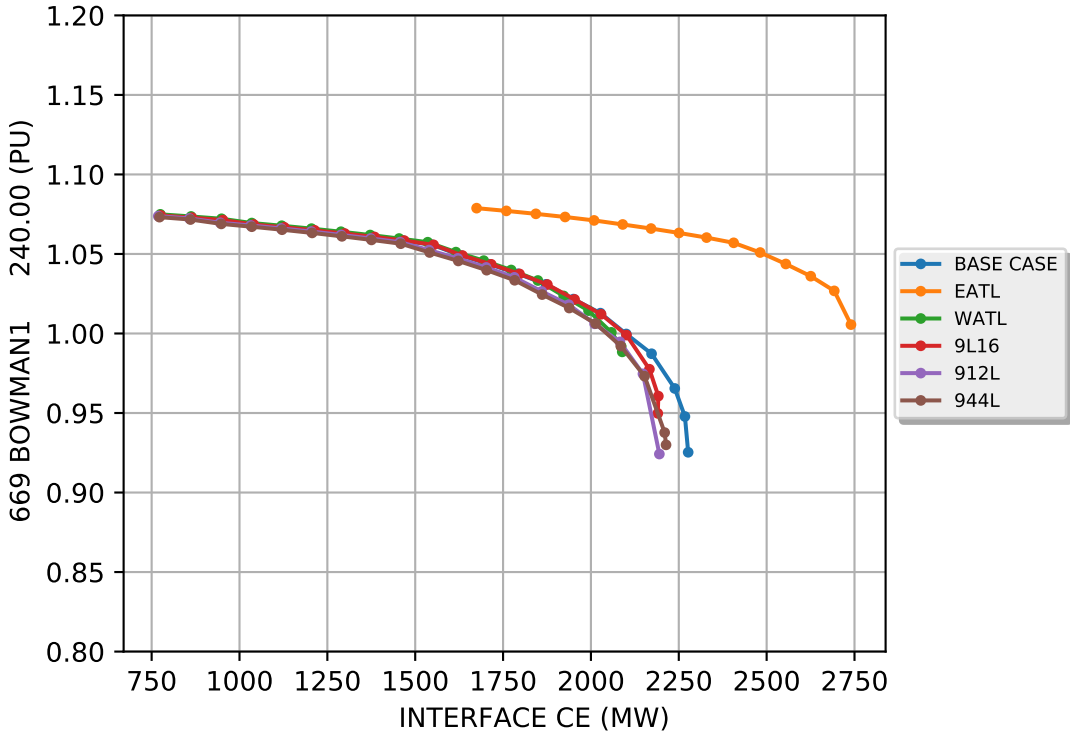


Figure: E-3-54

Case: M3, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 63.6%

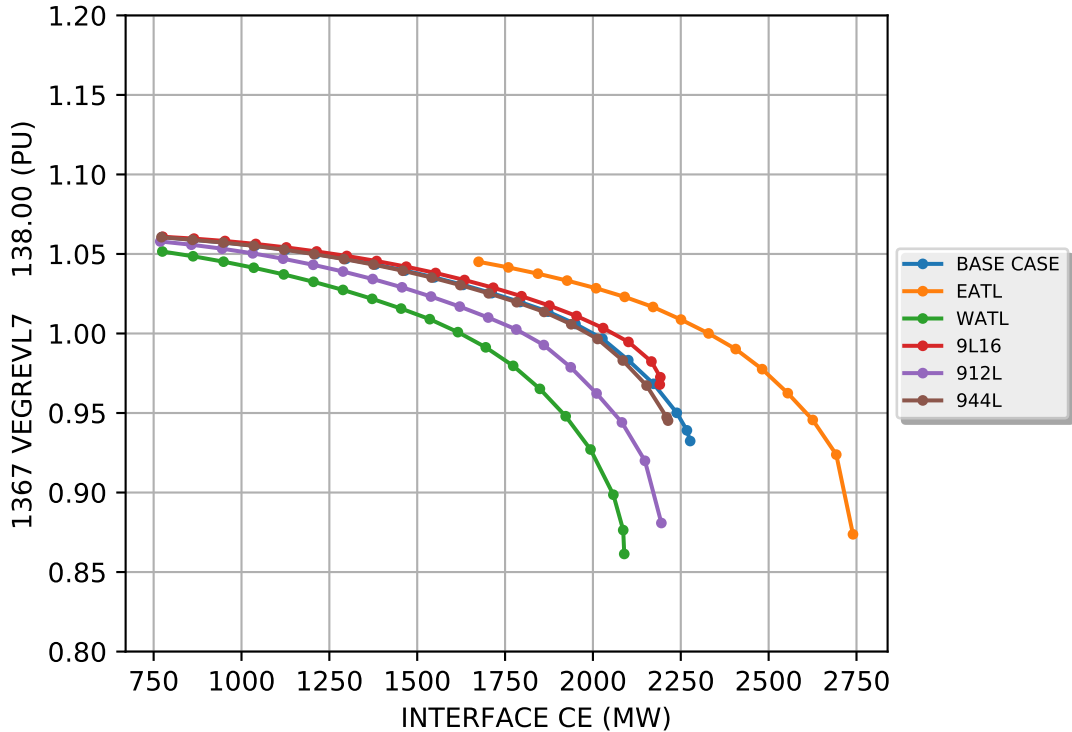


Figure: E-3-55

Case: M3, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 63.6%

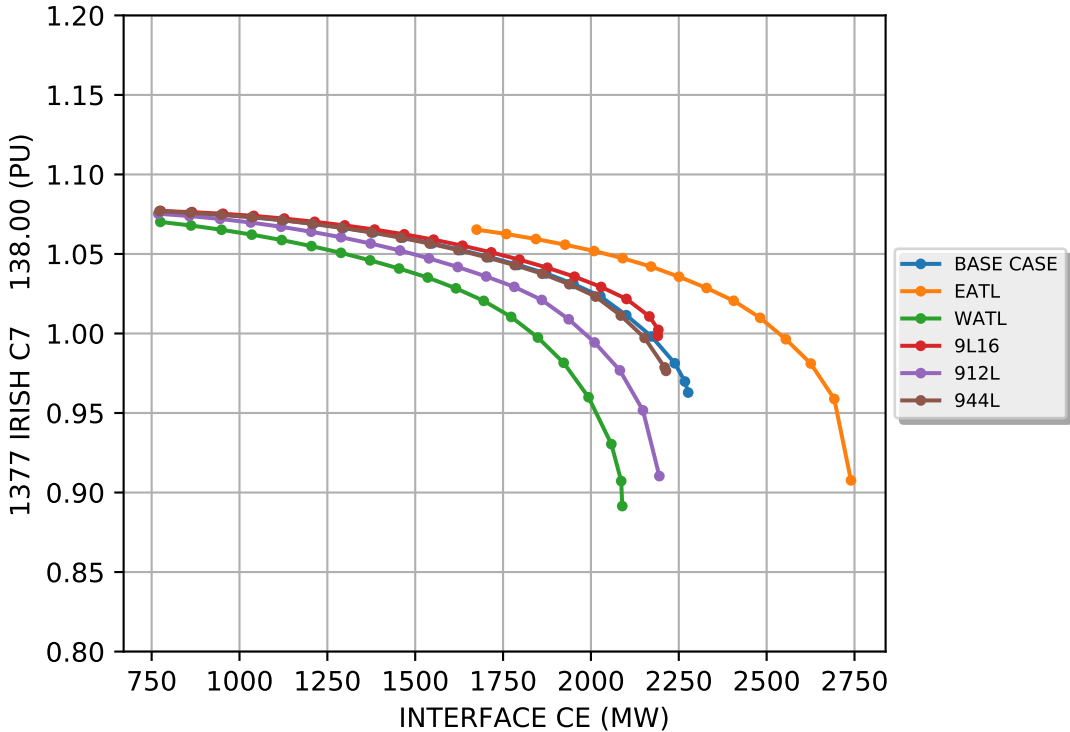


Figure: E-3-56

Case: M3, Option: BOTH2

Min Voltage: 0.87 PU, Min Margin: 63.6%

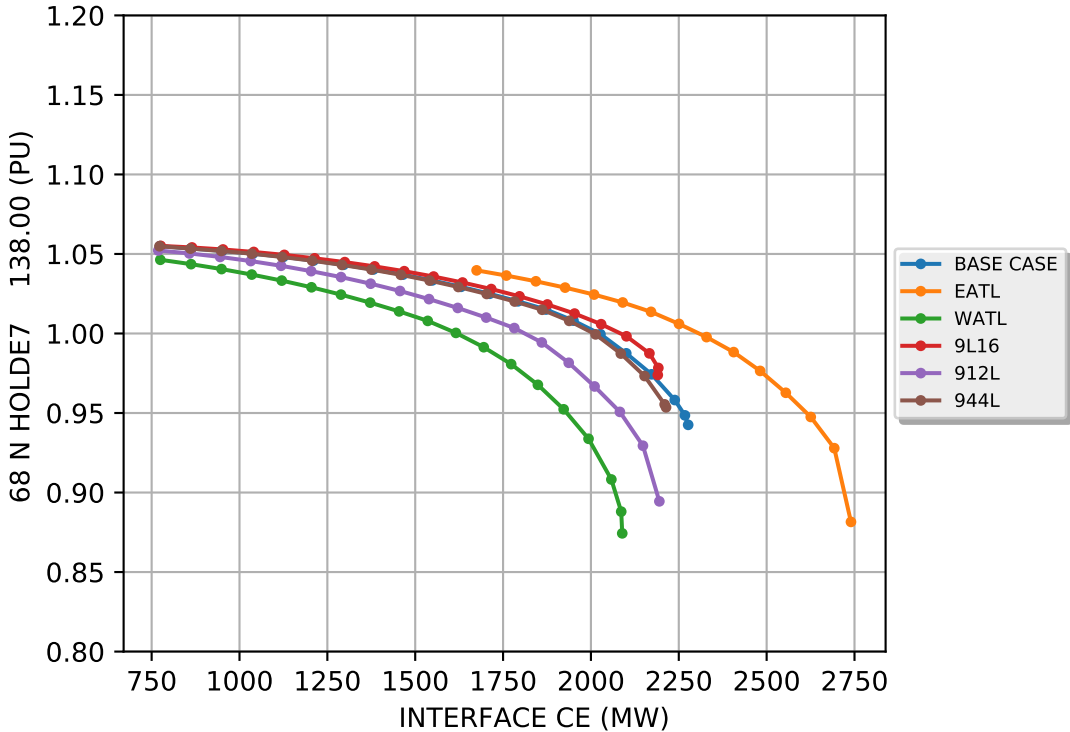


Figure: E-3-57

Case: M3, Option: BOTH2

Min Voltage: 0.97 PU, Min Margin: 63.6%

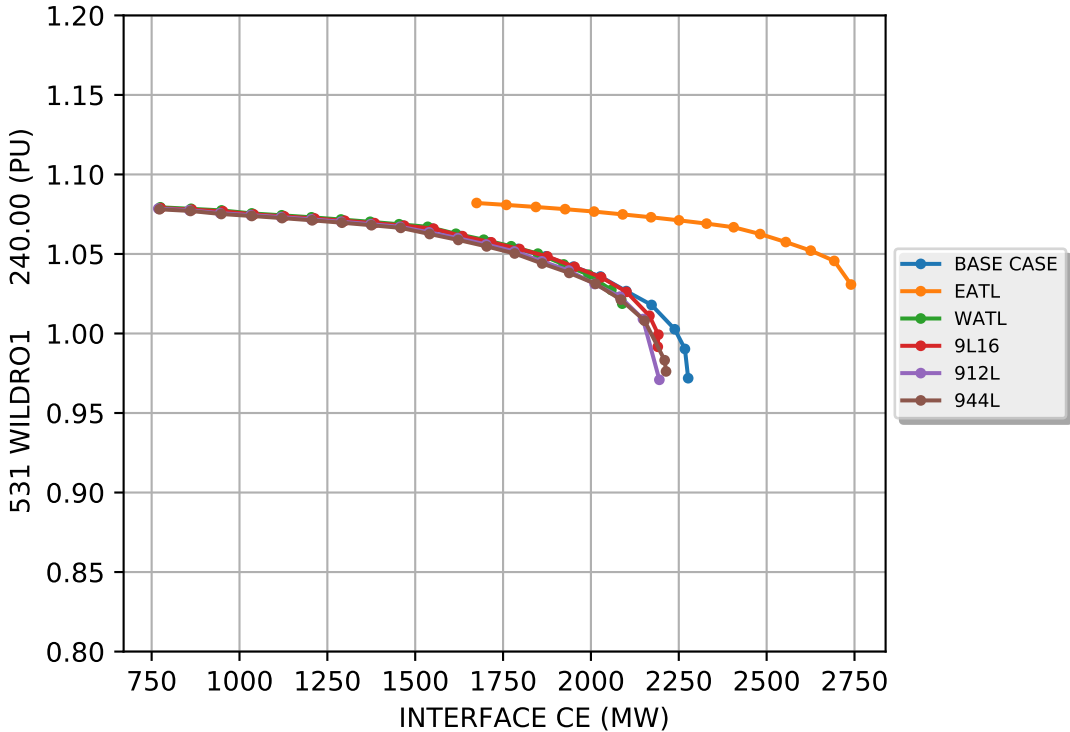


Figure: E-3-58

Case: M3, Option: BOTH2

Min Voltage: 0.92 PU, Min Margin: 63.6%

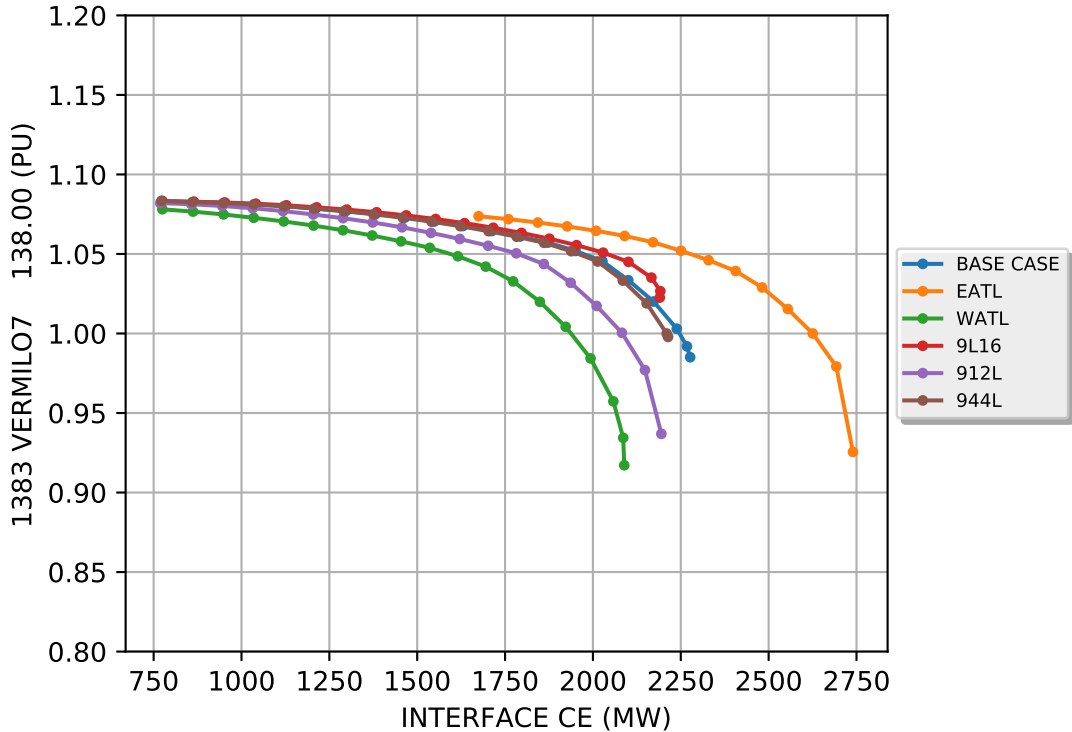


Figure: E-3-59

Case: M3, Option: BOTH2

Min Voltage: 0.92 PU, Min Margin: 63.6%

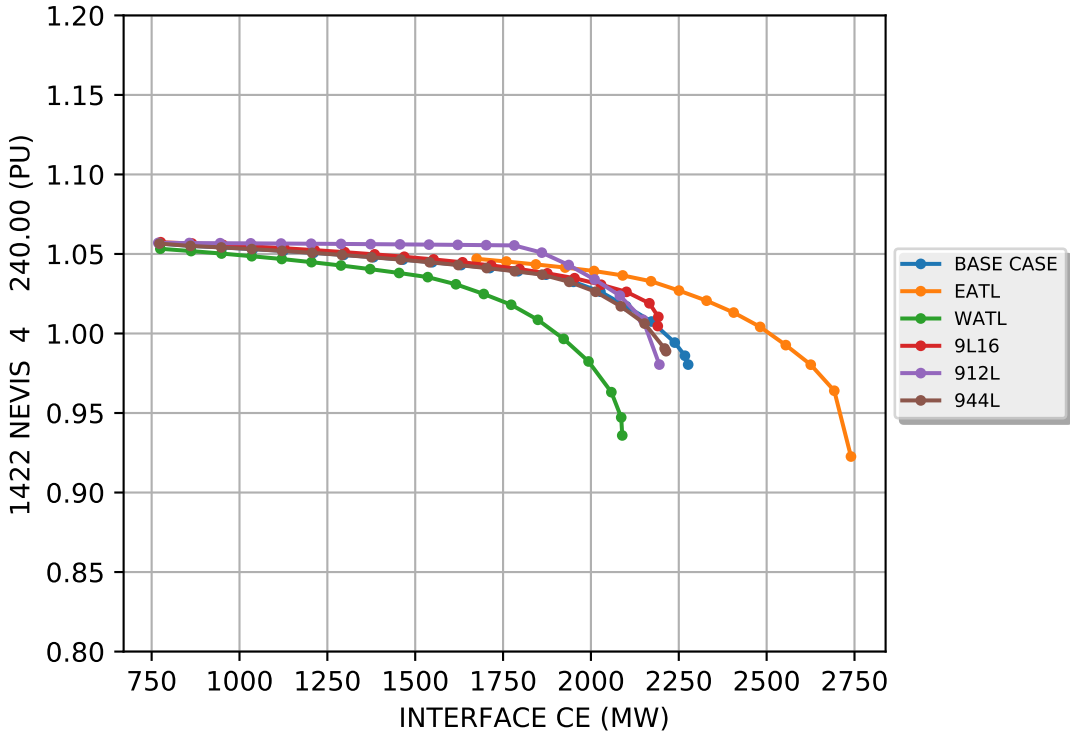


Figure: E-3-60

Case: M3, Option: BOTH2

Min Voltage: 0.93 PU, Min Margin: 63.6%

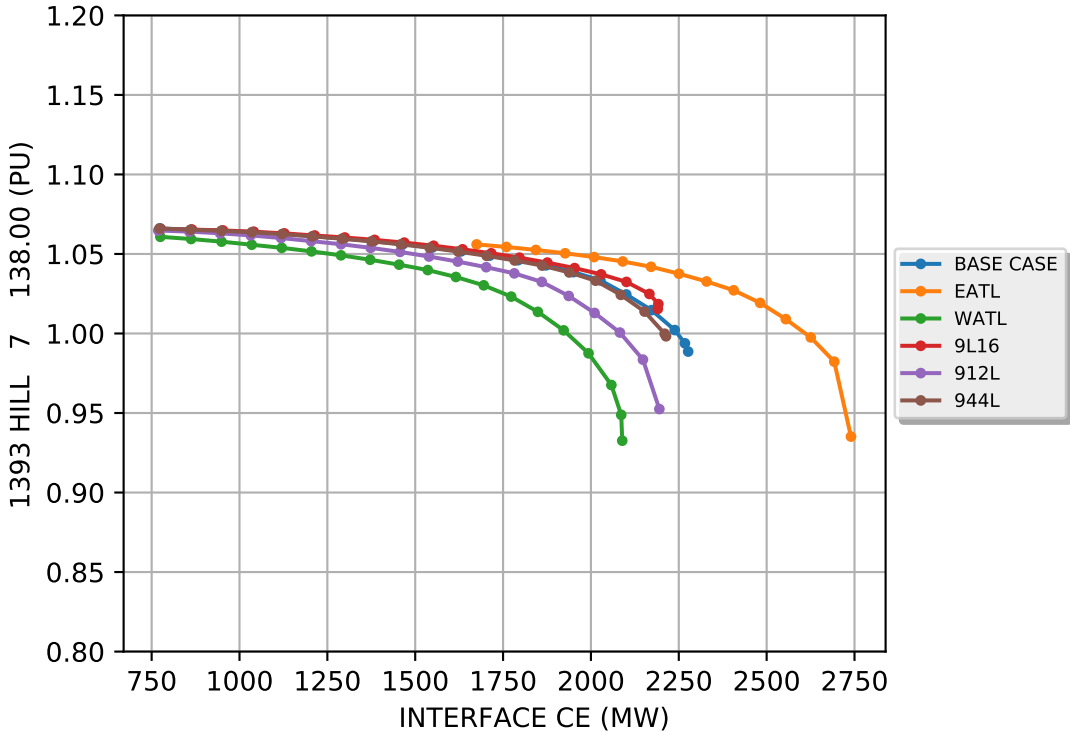


Figure: E-3-61

Case: M3, Option: BOTH2

Min Voltage: 0.87 PU, Min Margin: 63.6%

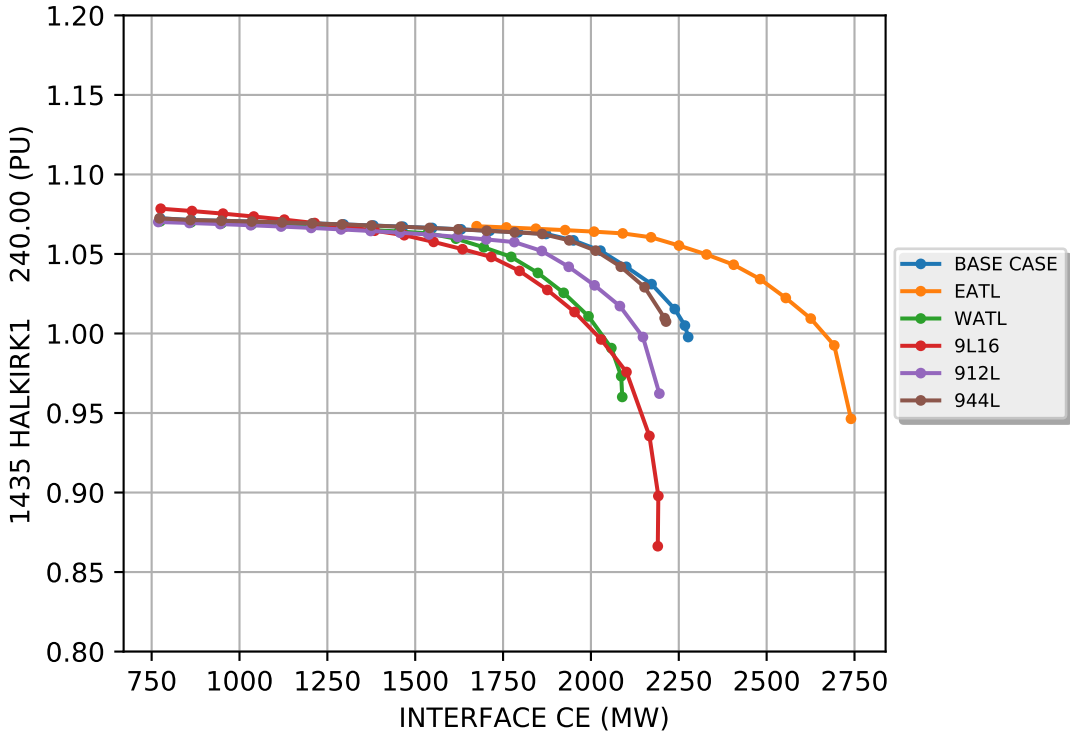


Figure: E-3-62

Case: M3, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 63.6%

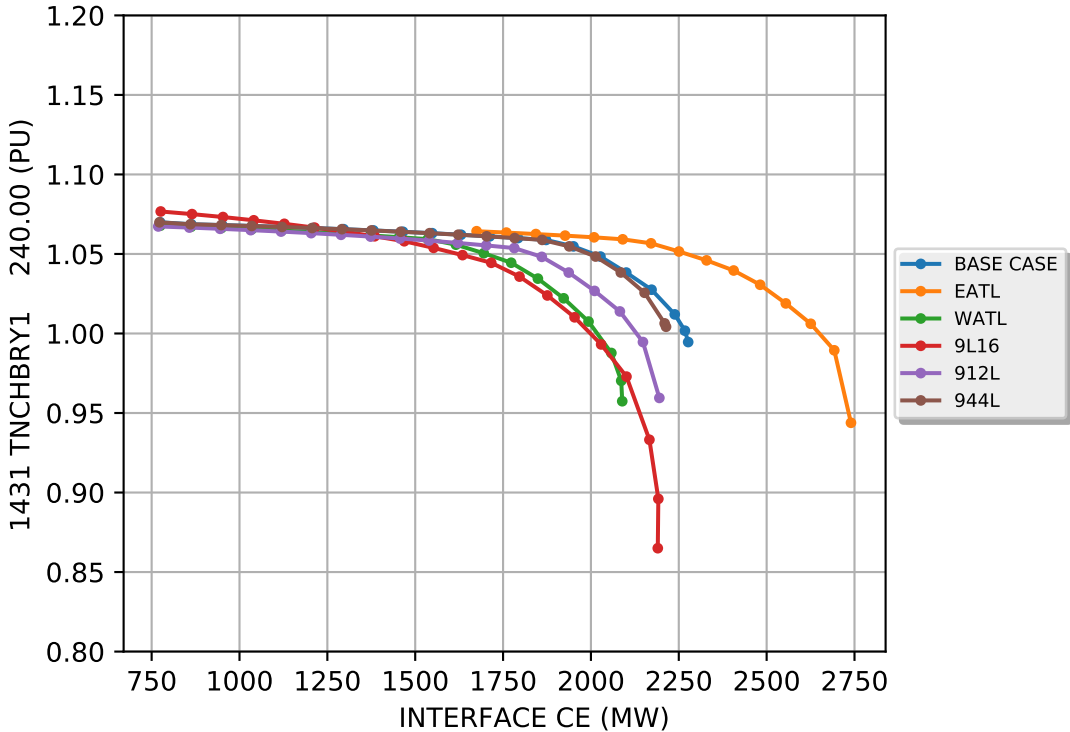


Figure: E-3-63

Case: M3, Option: BOTH2

Min Voltage: 0.93 PU, Min Margin: 63.6%

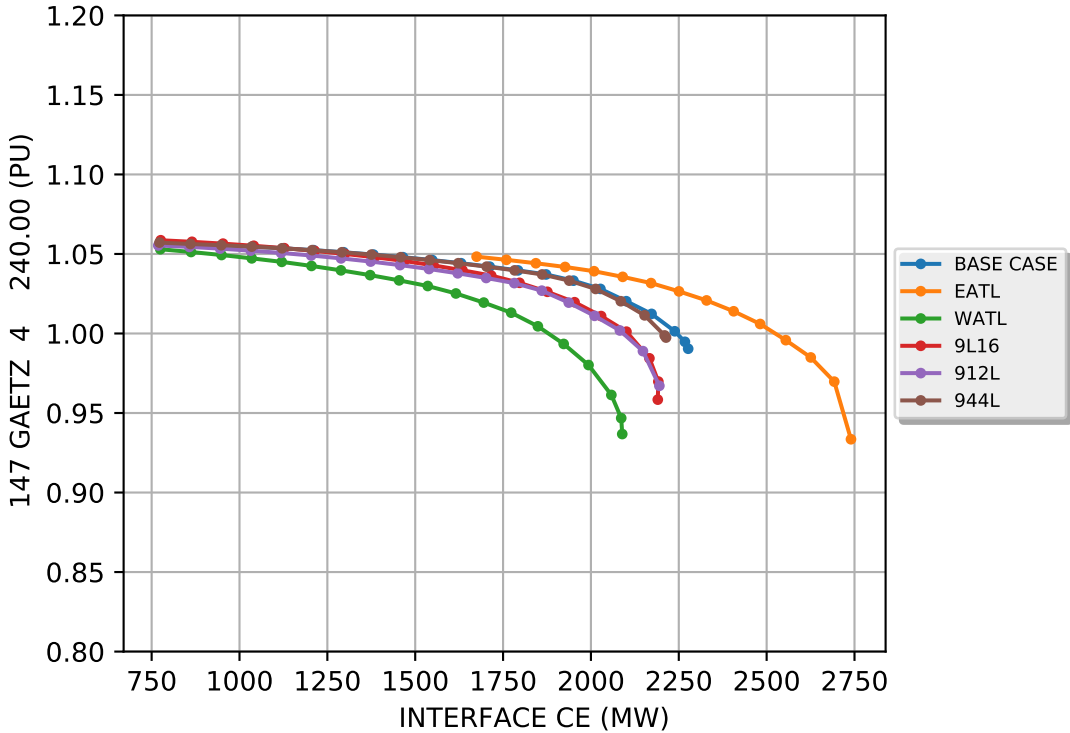


Figure: E-3-64

Case: M3, Option: BOTH2

Min Voltage: 0.97 PU, Min Margin: 63.6%

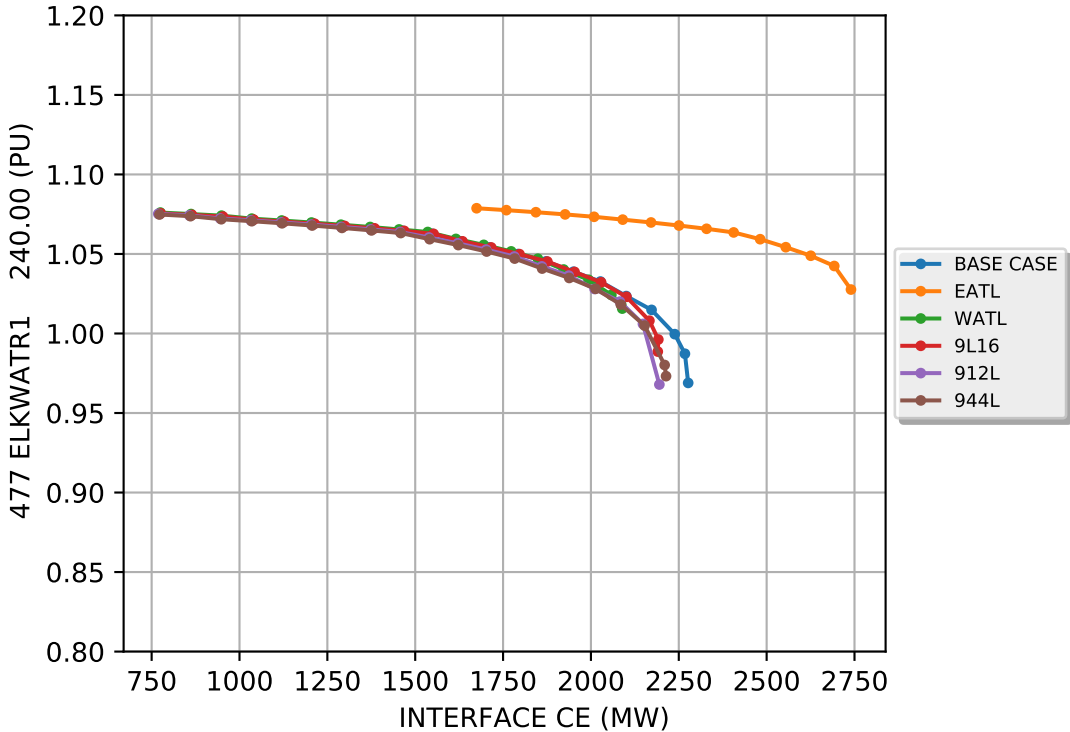


Figure: E-3-65

Case: M6, Option: BOTH2

Min Voltage: 0.92 PU, Min Margin: 45.2%

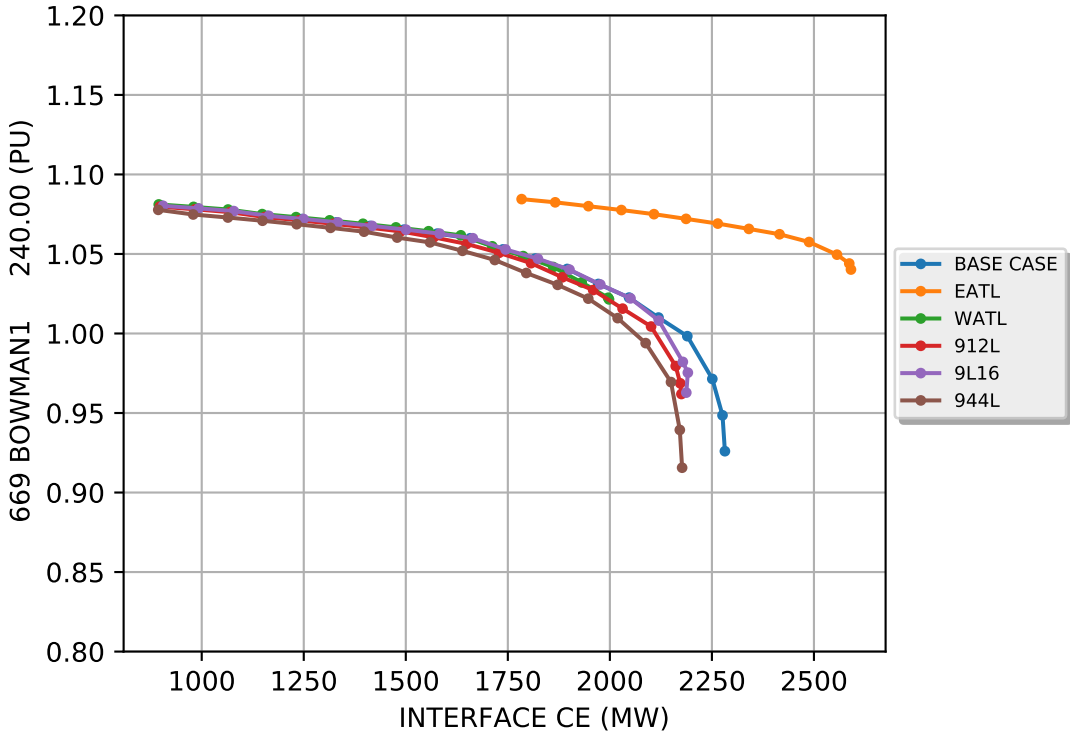


Figure: E-3-66

Case: M6, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 45.2%

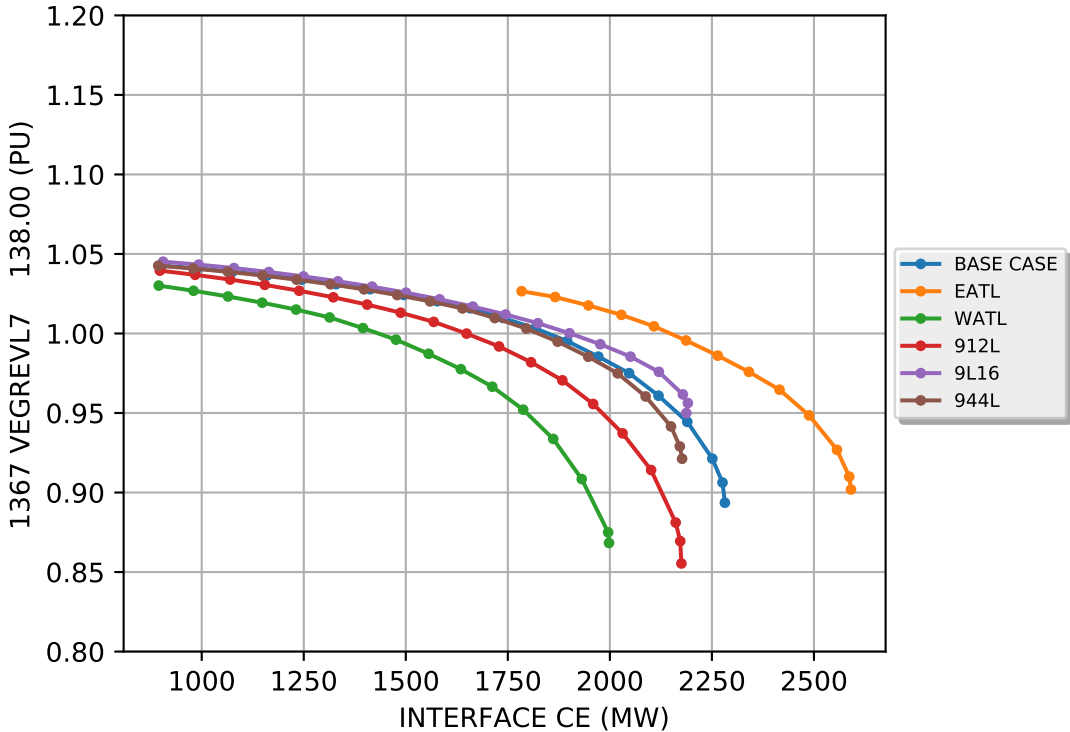


Figure: E-3-67

Case: M6, Option: BOTH2

Min Voltage: 0.87 PU, Min Margin: 45.2%

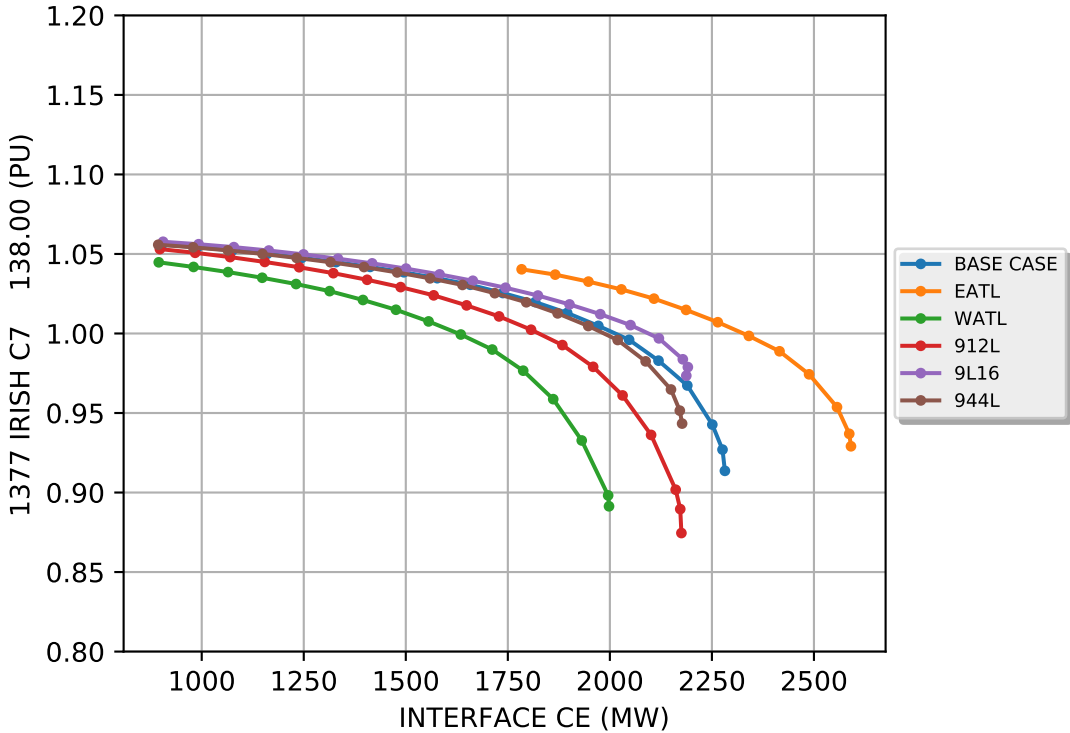


Figure: E-3-68

Case: M6, Option: BOTH2

Min Voltage: 0.88 PU, Min Margin: 45.2%

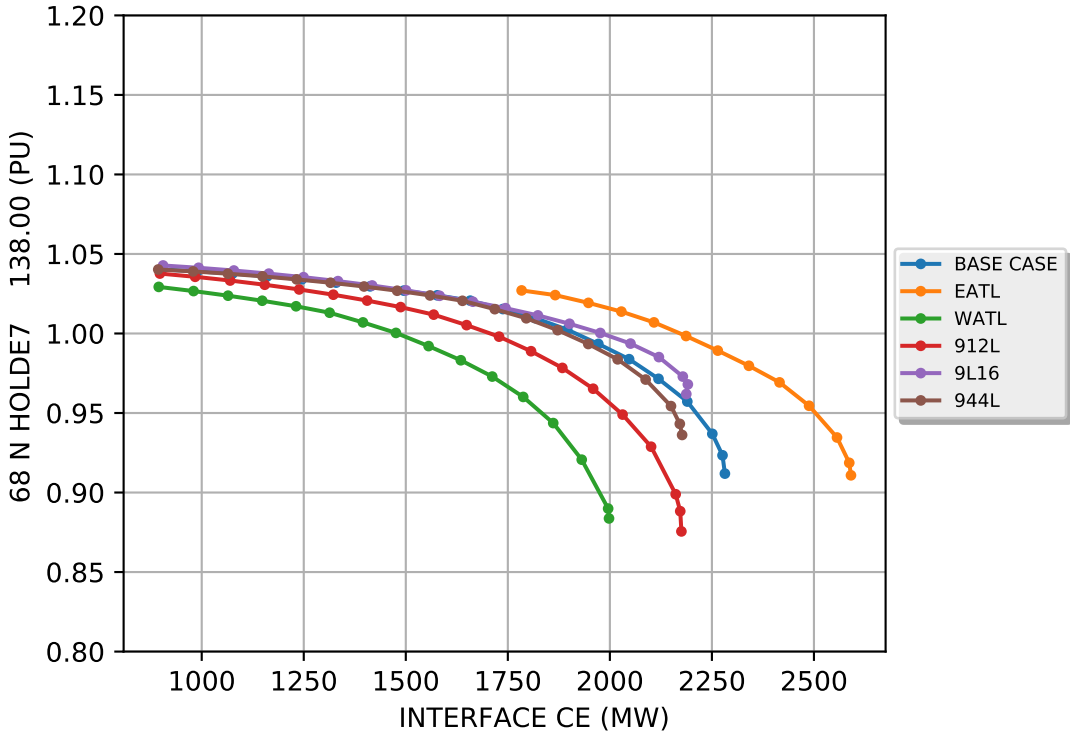


Figure: E-3-69

Case: M6, Option: BOTH2

Min Voltage: 0.92 PU, Min Margin: 45.2%

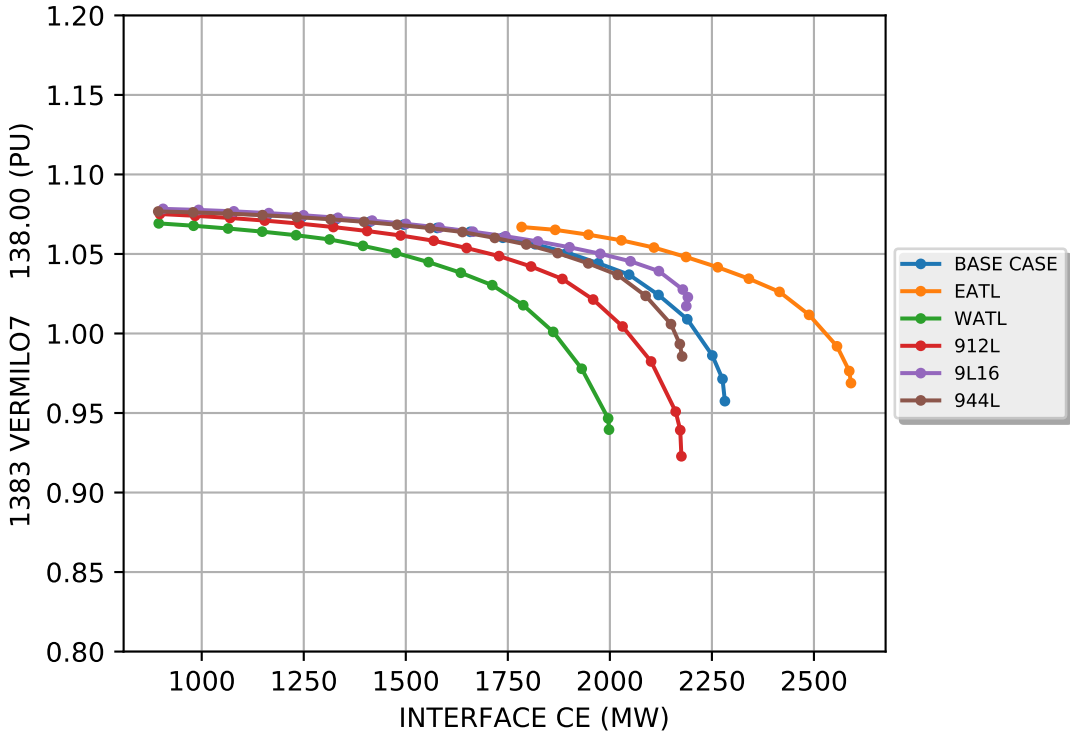


Figure: E-3-70

Case: M6, Option: BOTH2

Min Voltage: 0.96 PU, Min Margin: 45.2%

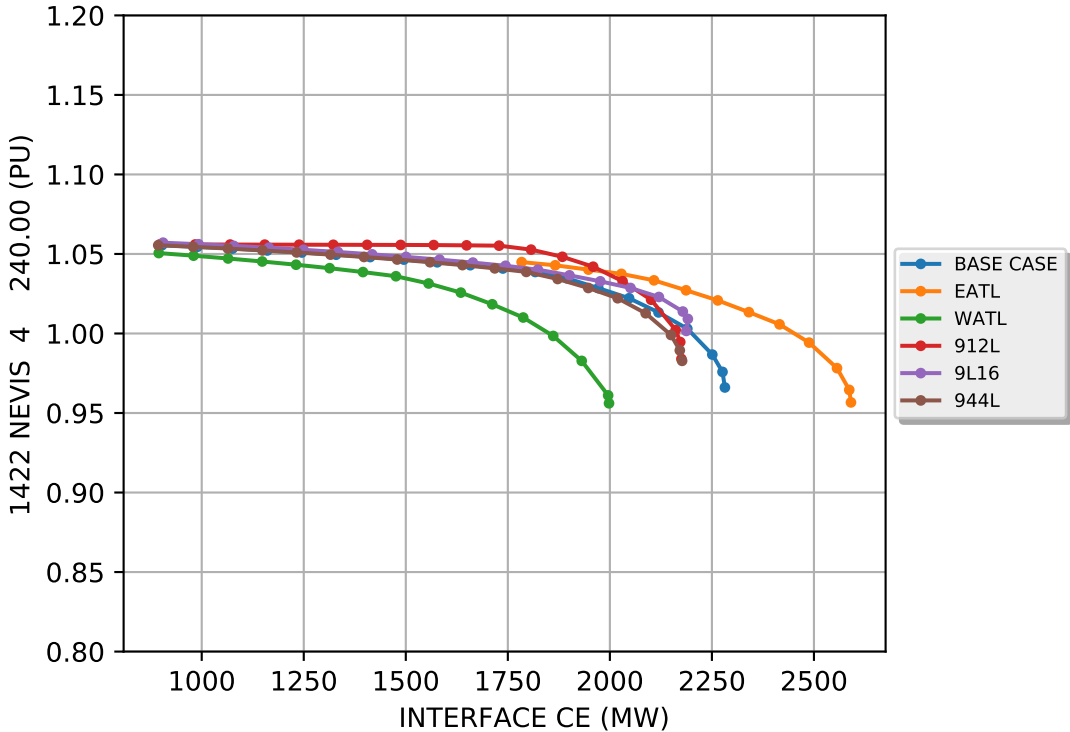


Figure: E-3-71

Case: M6, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 45.2%

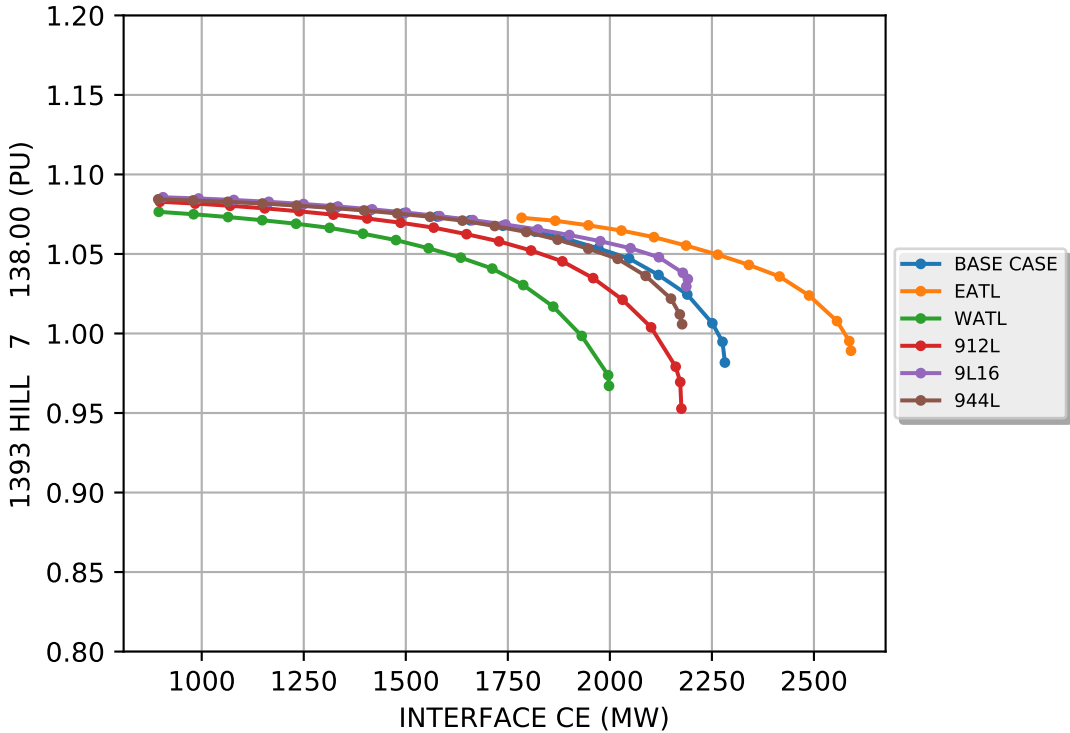


Figure: E-3-72

Case: M6, Option: BOTH2

Min Voltage: 0.85 PU, Min Margin: 45.2%

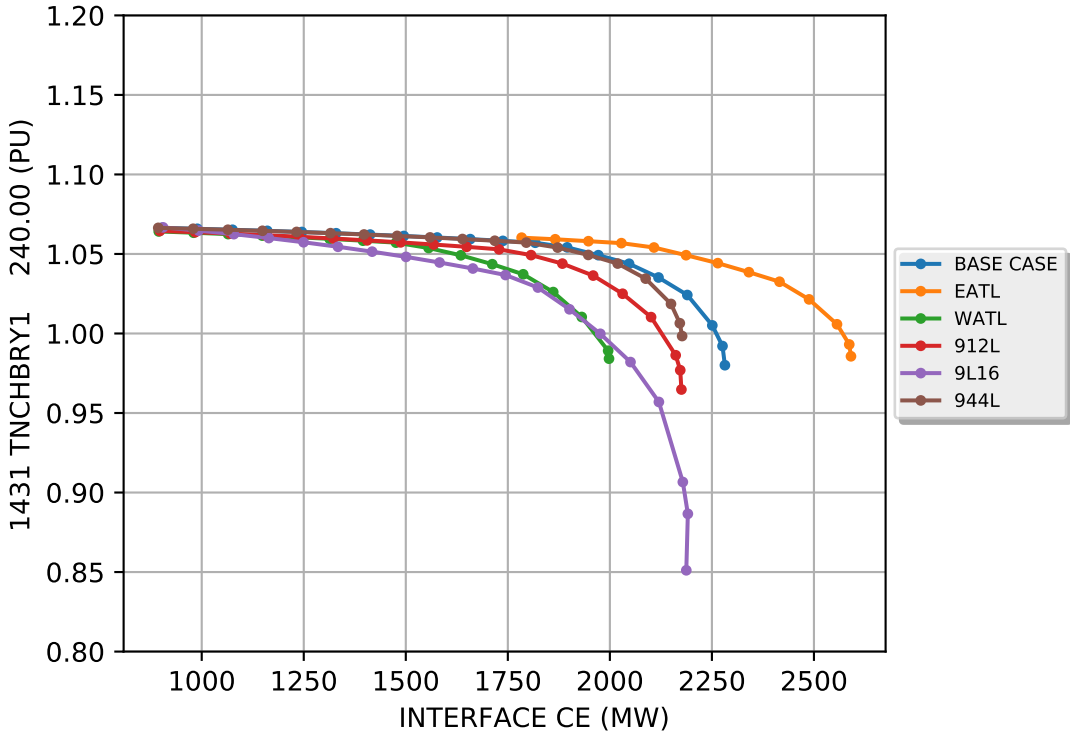


Figure: E-3-73

Case: M6, Option: BOTH2

Min Voltage: 0.85 PU, Min Margin: 45.2%

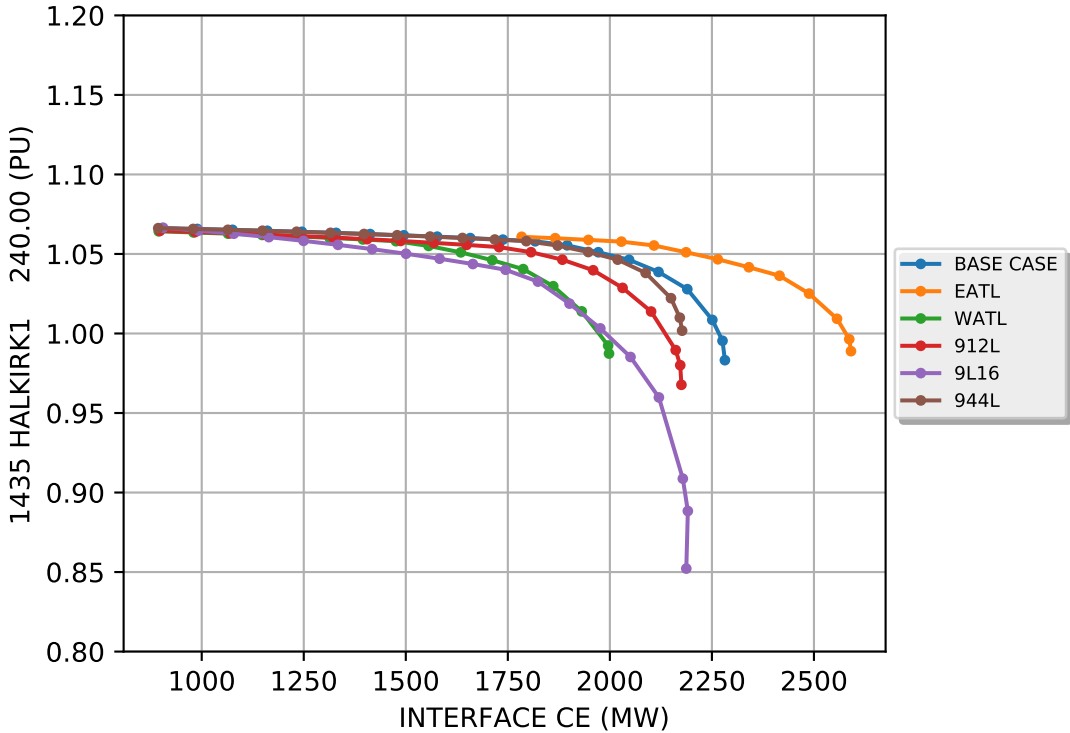


Figure: E-3-74

Case: M6, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 45.2%

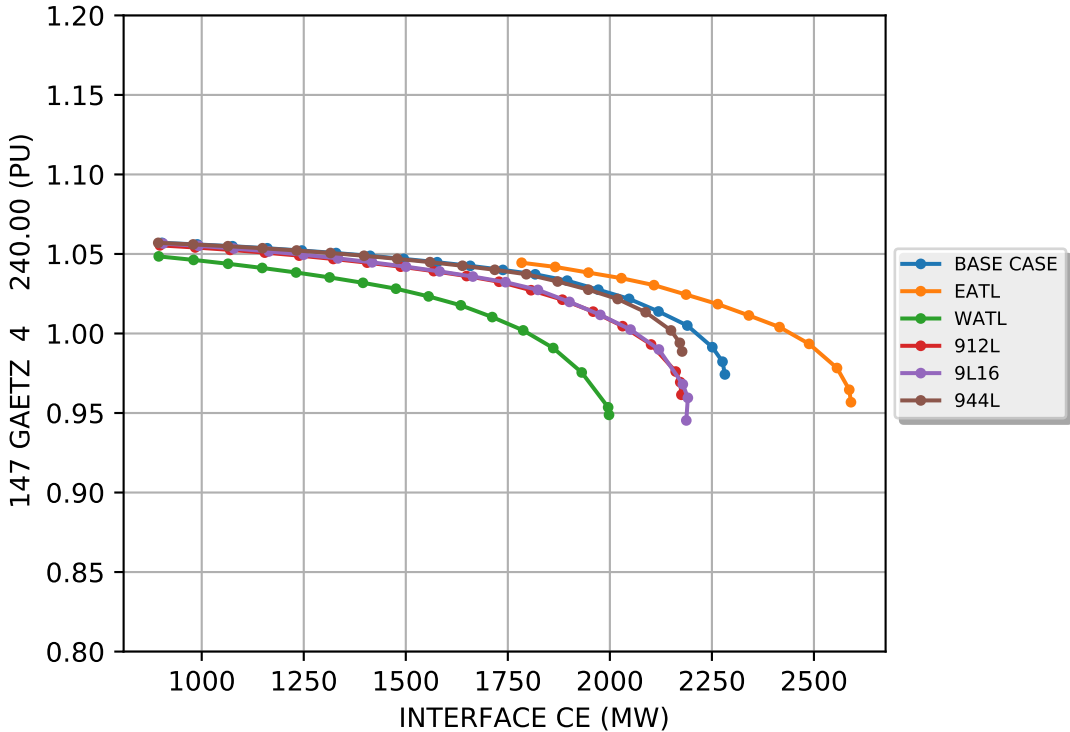


Figure: E-3-75

Case: M6, Option: BOTH2

Min Voltage: 0.96 PU, Min Margin: 45.2%

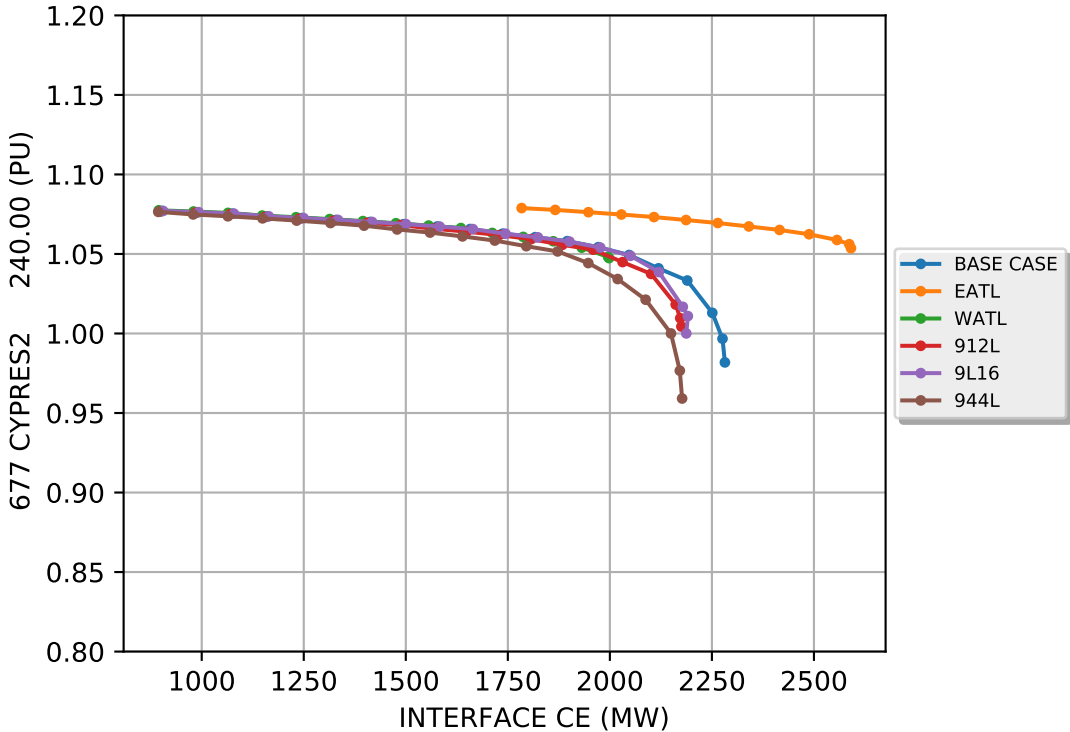


Figure: E-3-76

Case: M6, Option: BOTH2

Min Voltage: 0.96 PU, Min Margin: 45.2%

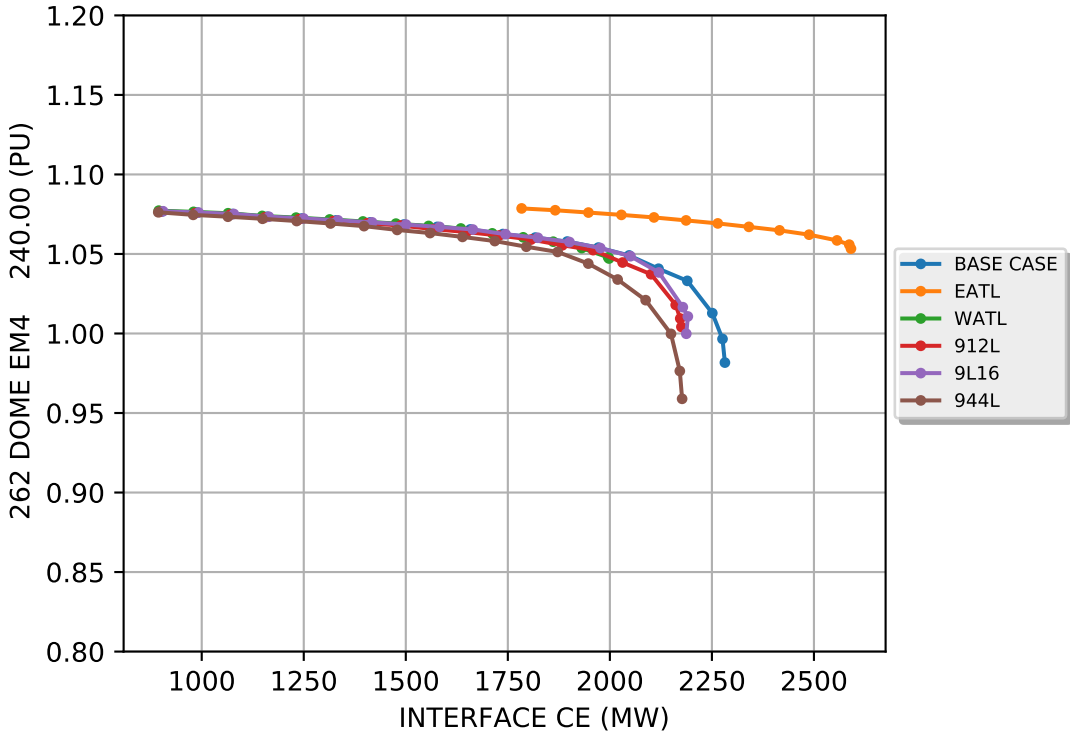


Figure: E-3-77

Case: M6, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 45.2%

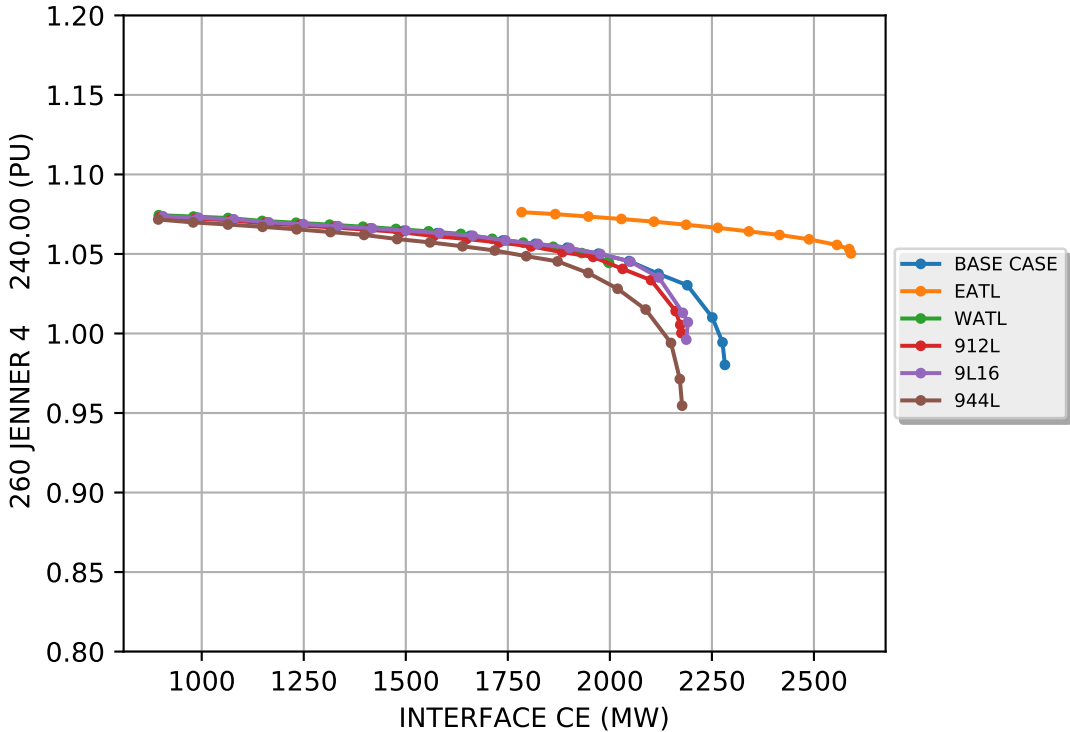


Figure: E-3-78

Case: H4, Option: BOTHC2

Min Voltage: 0.85 PU, Min Margin: 36.6%

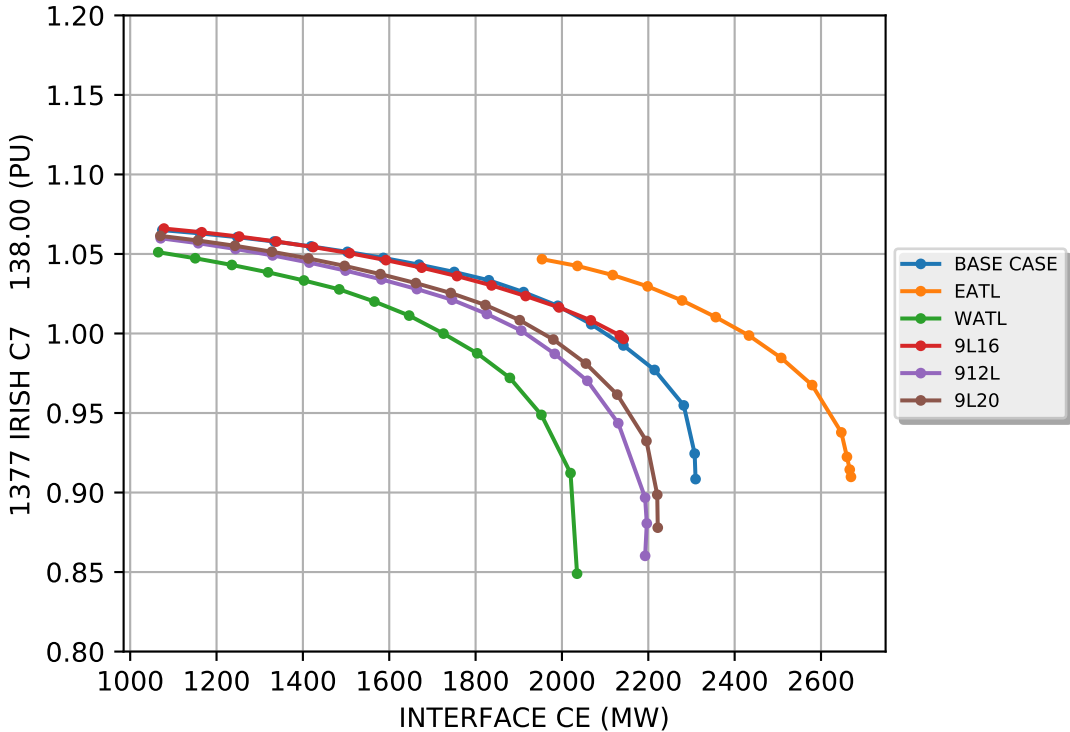


Figure: E-3-79

Case: H4, Option: BOTHC2

Min Voltage: 0.82 PU, Min Margin: 36.6%

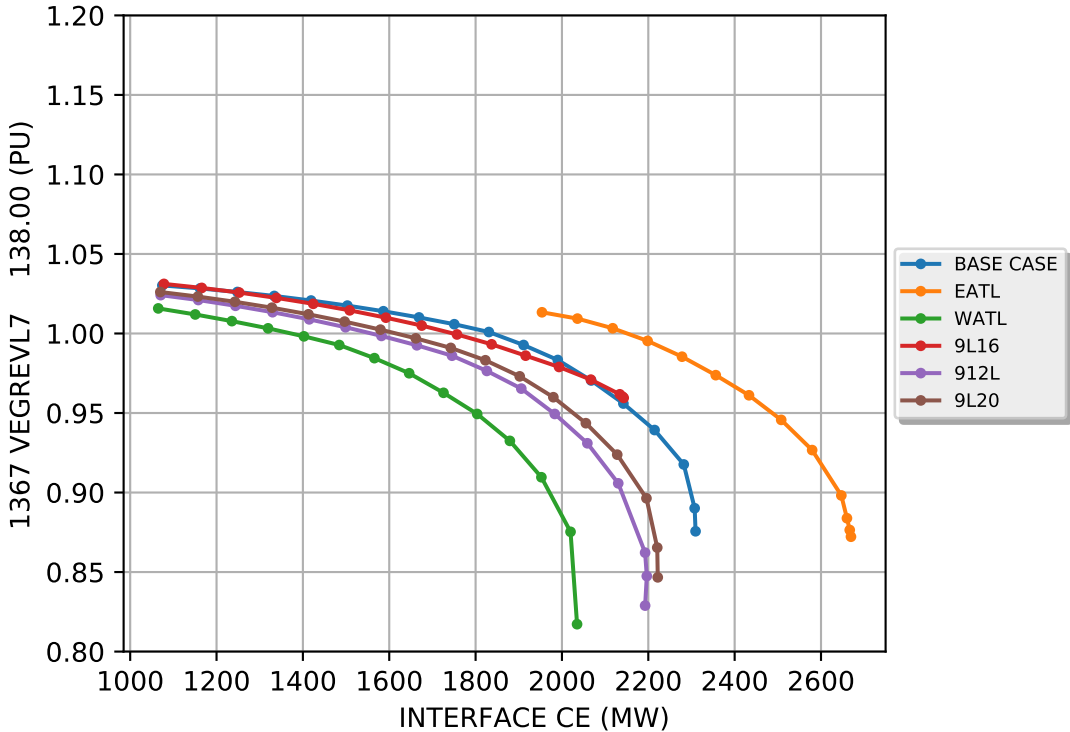


Figure: E-3-80

Case: H4, Option: BOTHC2

Min Voltage: 0.85 PU, Min Margin: 36.6%

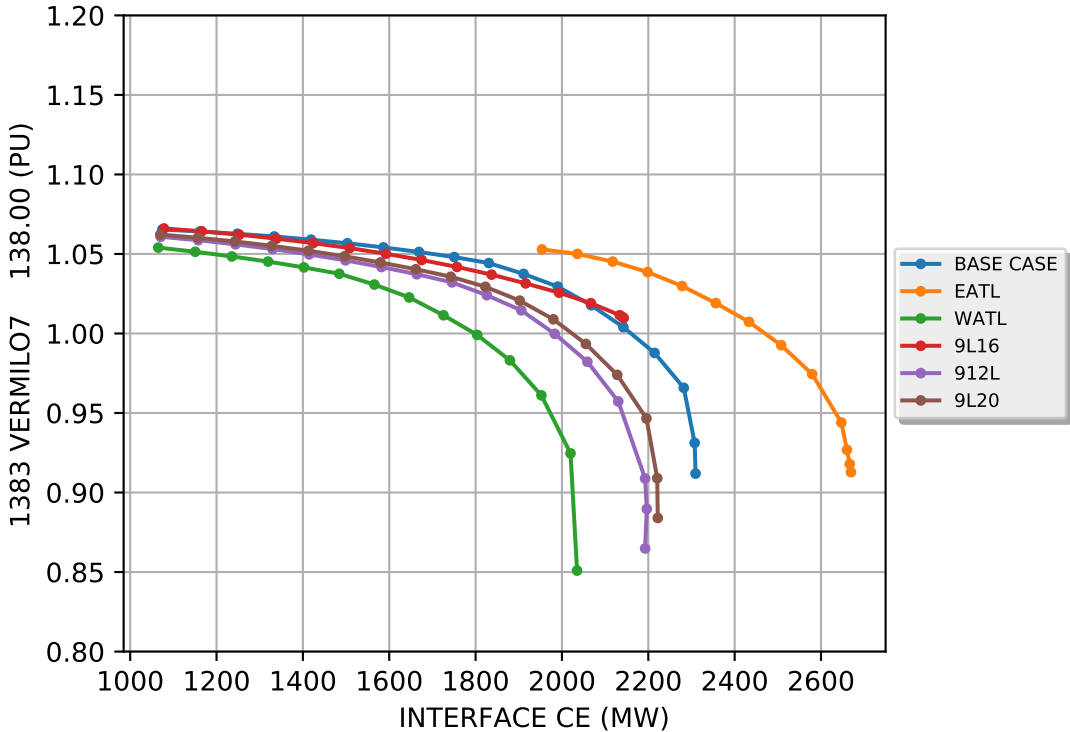


Figure: E-3-81

Case: H4, Option: BOTHC2

Min Voltage: 0.85 PU, Min Margin: 36.6%

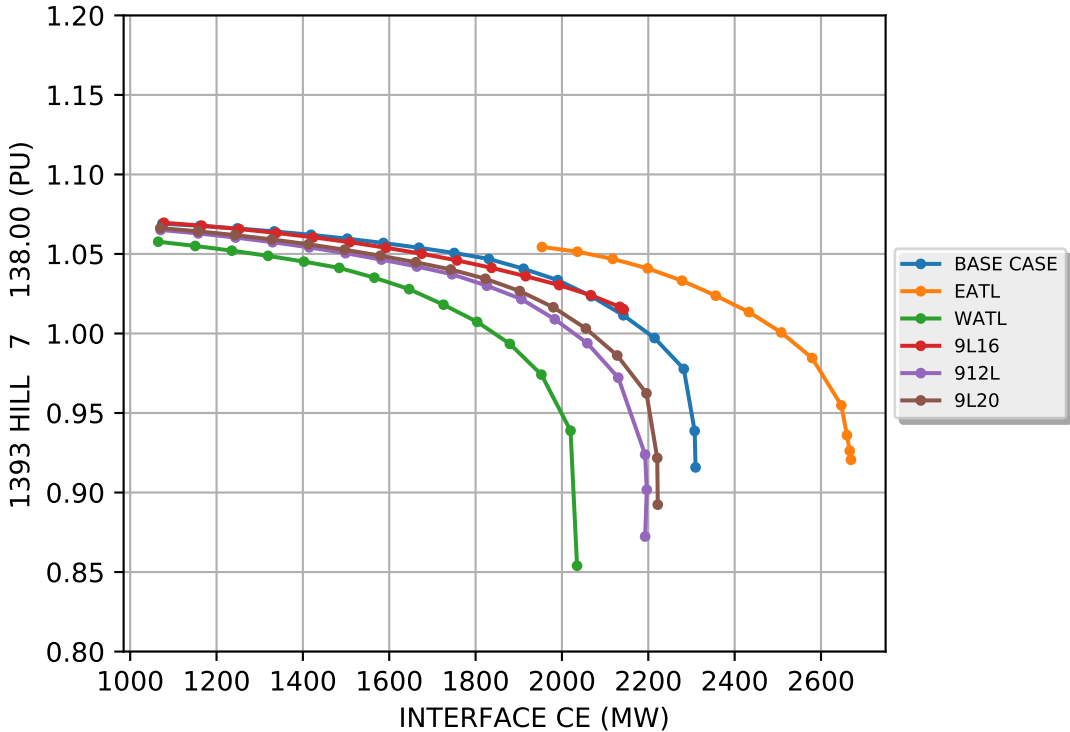


Figure: E-3-82

Case: H4, Option: BOTHC2

Min Voltage: 0.86 PU, Min Margin: 36.6%

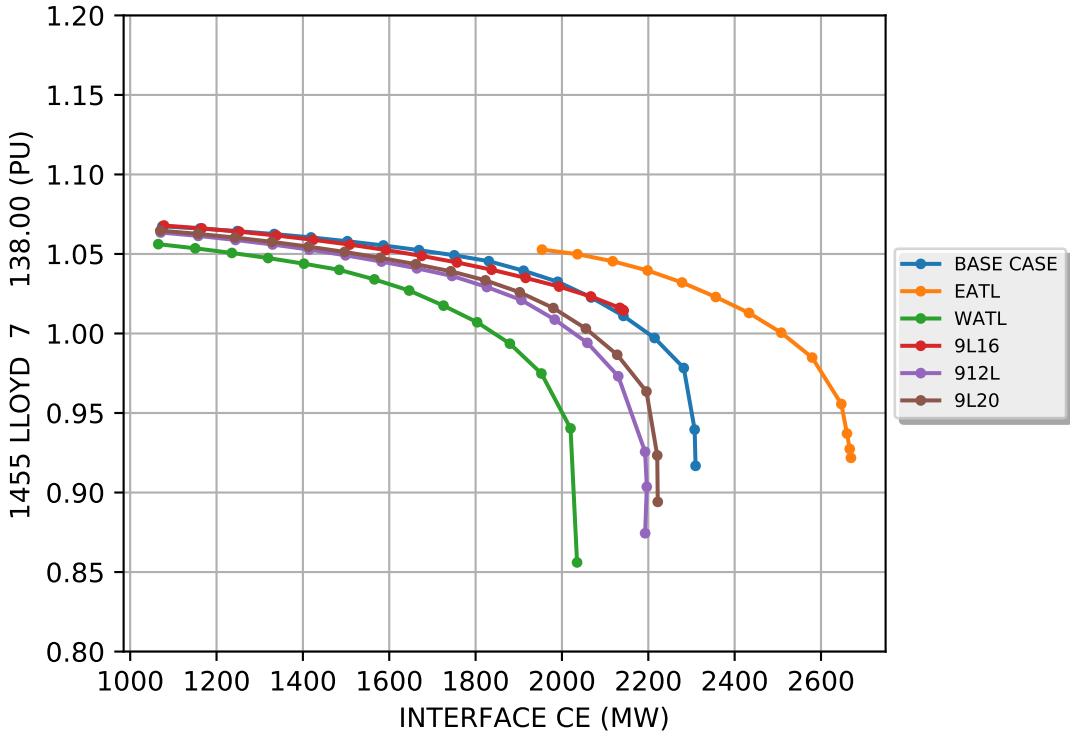


Figure: E-3-83

Case: H4, Option: BOTHC2

Min Voltage: 0.87 PU, Min Margin: 36.6%

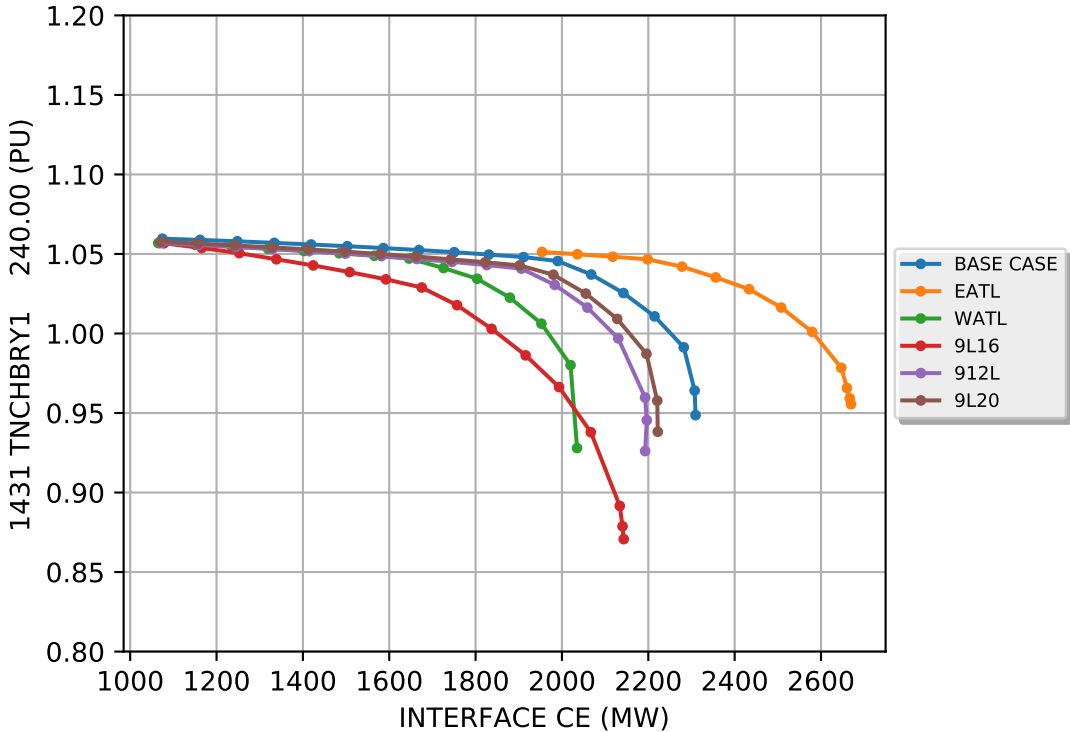


Figure: E-3-84

Case: H4, Option: BOTHC2

Min Voltage: 0.87 PU, Min Margin: 36.6%

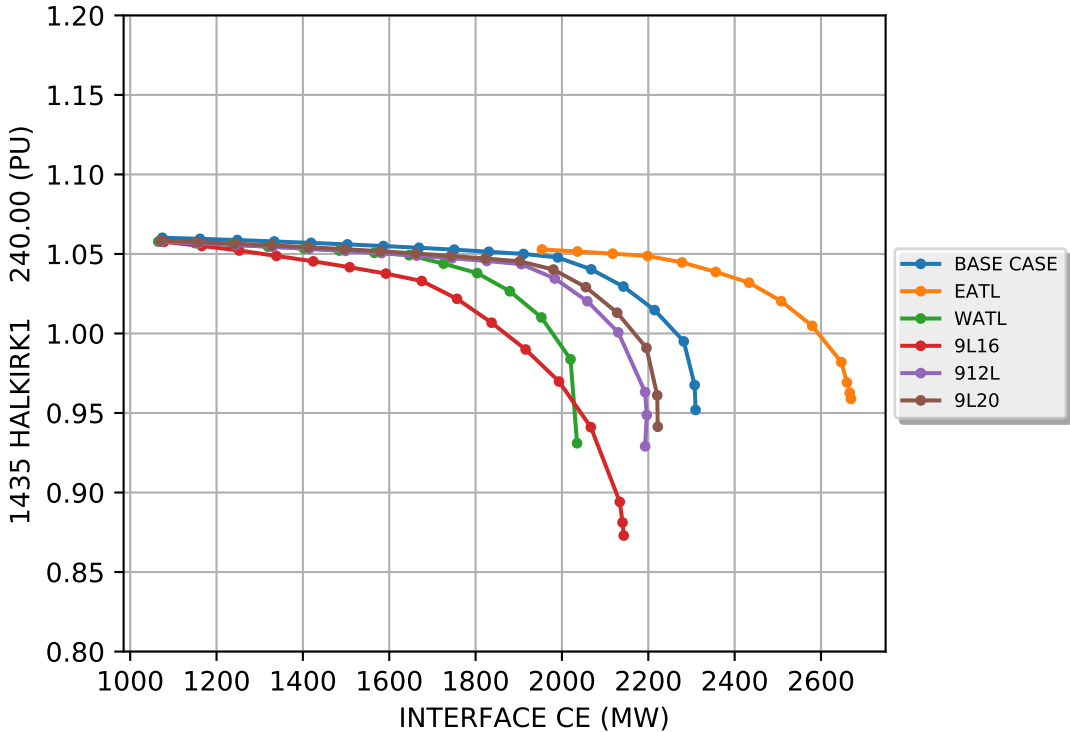


Figure: E-3-85

Case: H4, Option: BOTHC2

Min Voltage: 0.92 PU, Min Margin: 36.6%

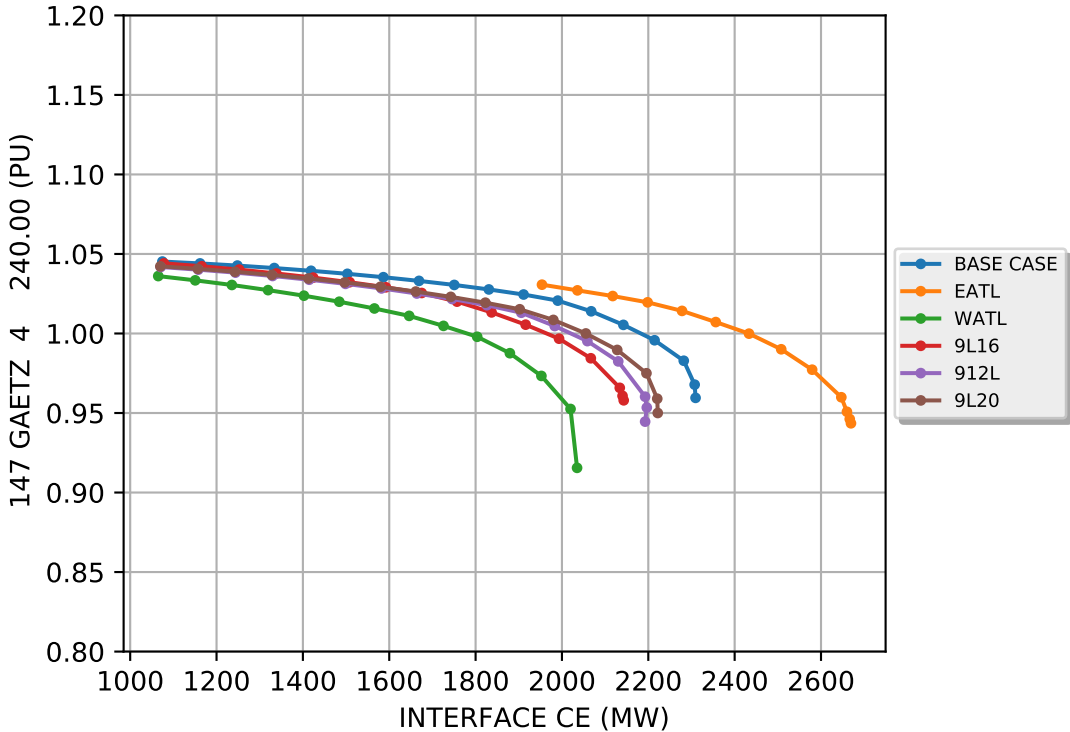


Figure: E-3-86

Case: M12, Option: BOTH2

Min Voltage: 0.83 PU, Min Margin: 44.6%

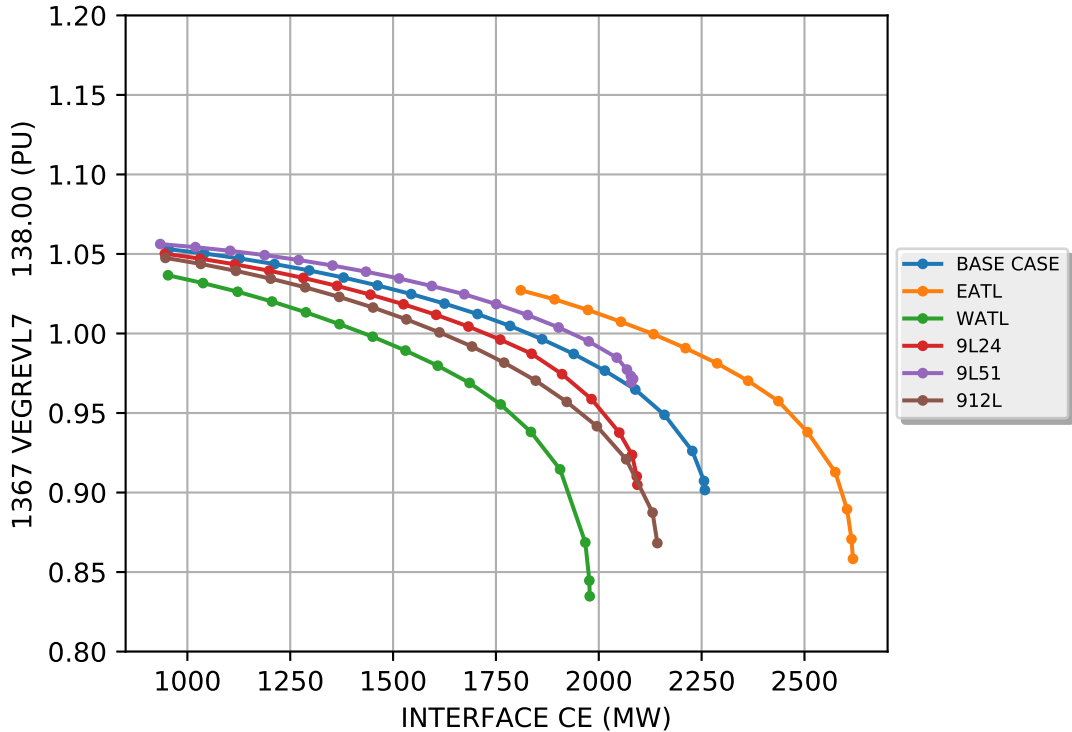


Figure: E-3-87

Case: M12, Option: BOTH2

Min Voltage: 0.85 PU, Min Margin: 44.6%

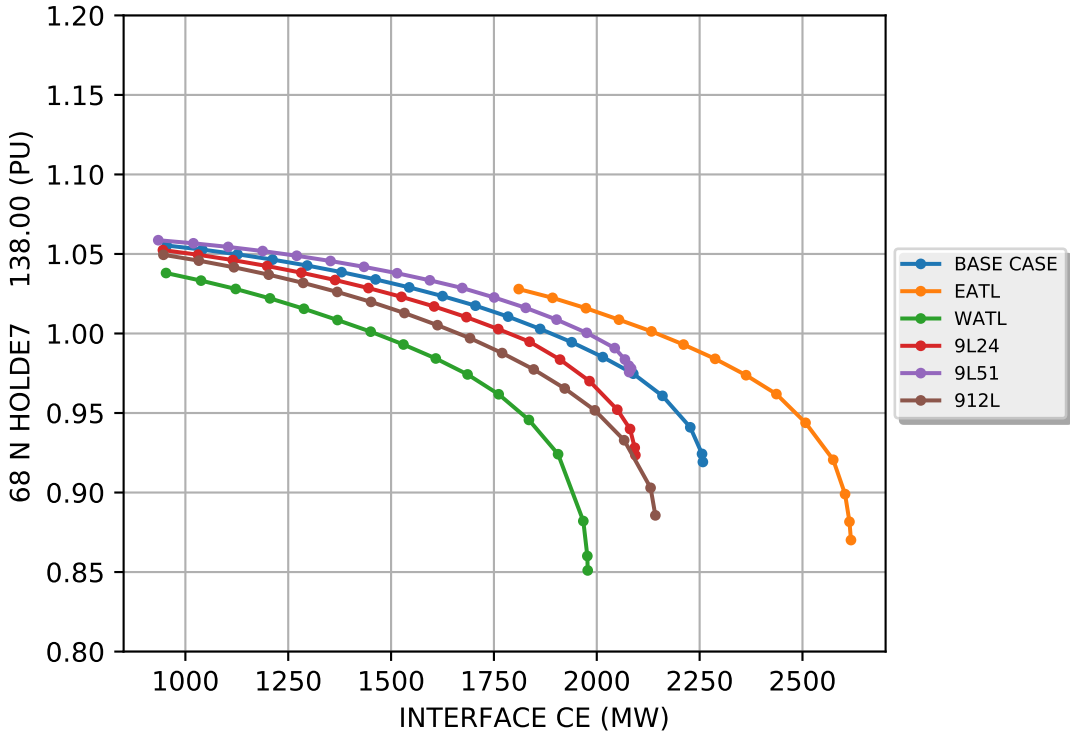


Figure: E-3-88

Case: M12, Option: BOTH2

Min Voltage: 0.87 PU, Min Margin: 44.6%

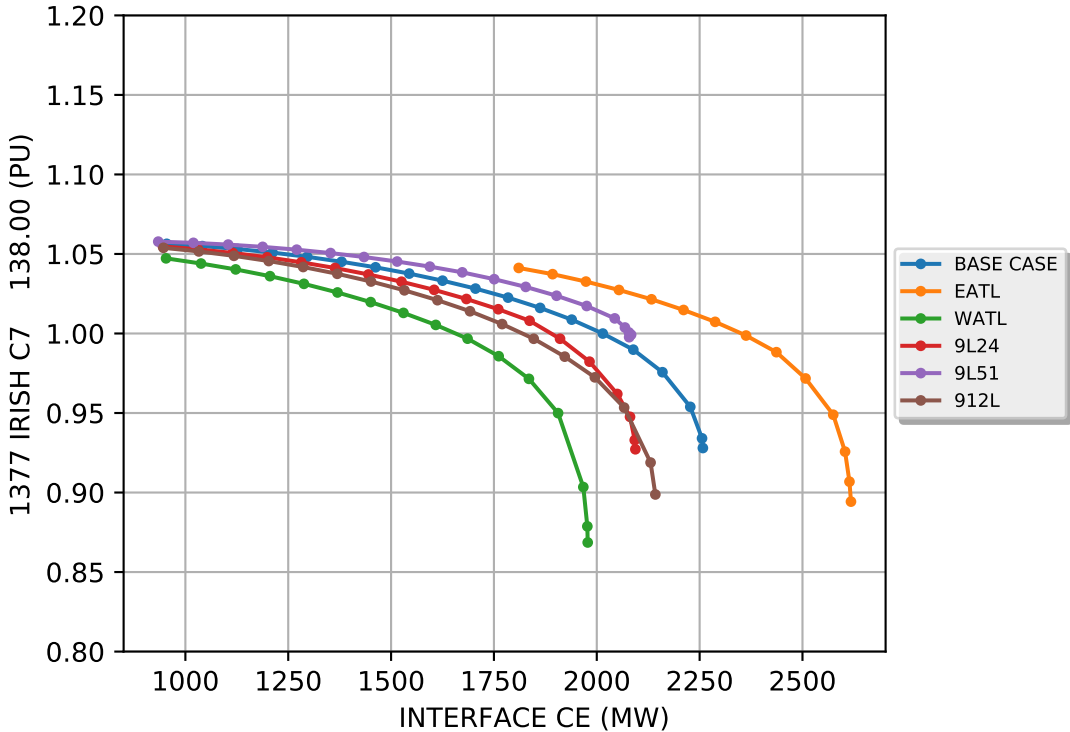


Figure: E-3-89

Case: M12, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 44.6%

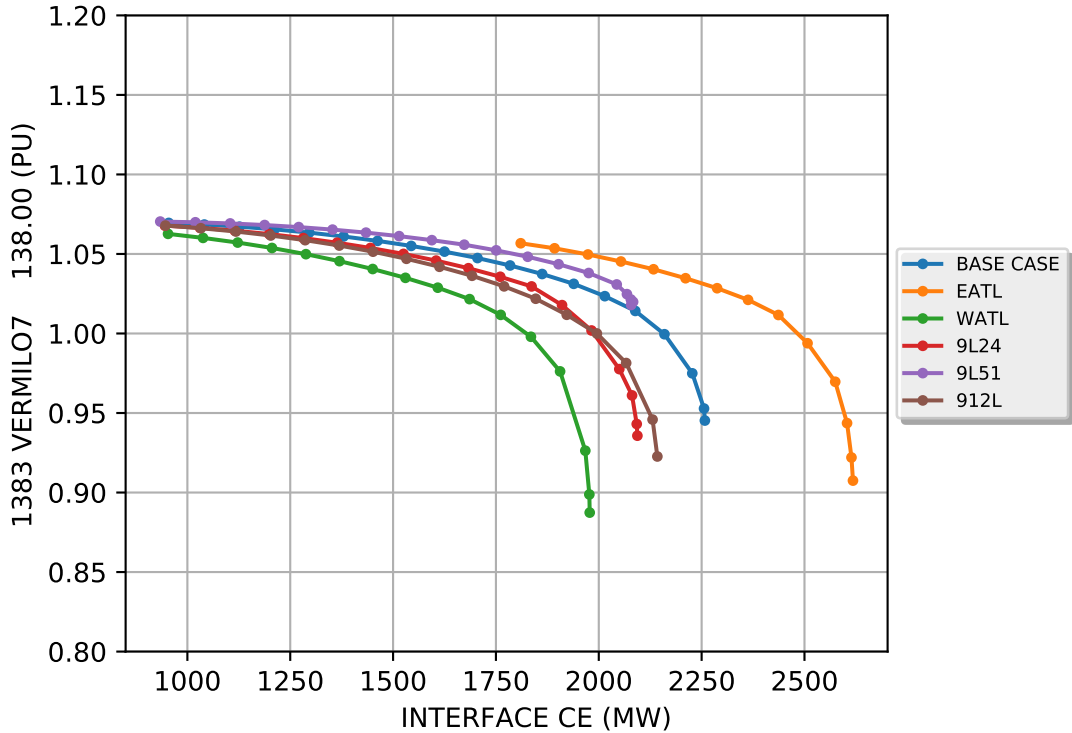


Figure: E-3-90

Case: M12, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 44.6%

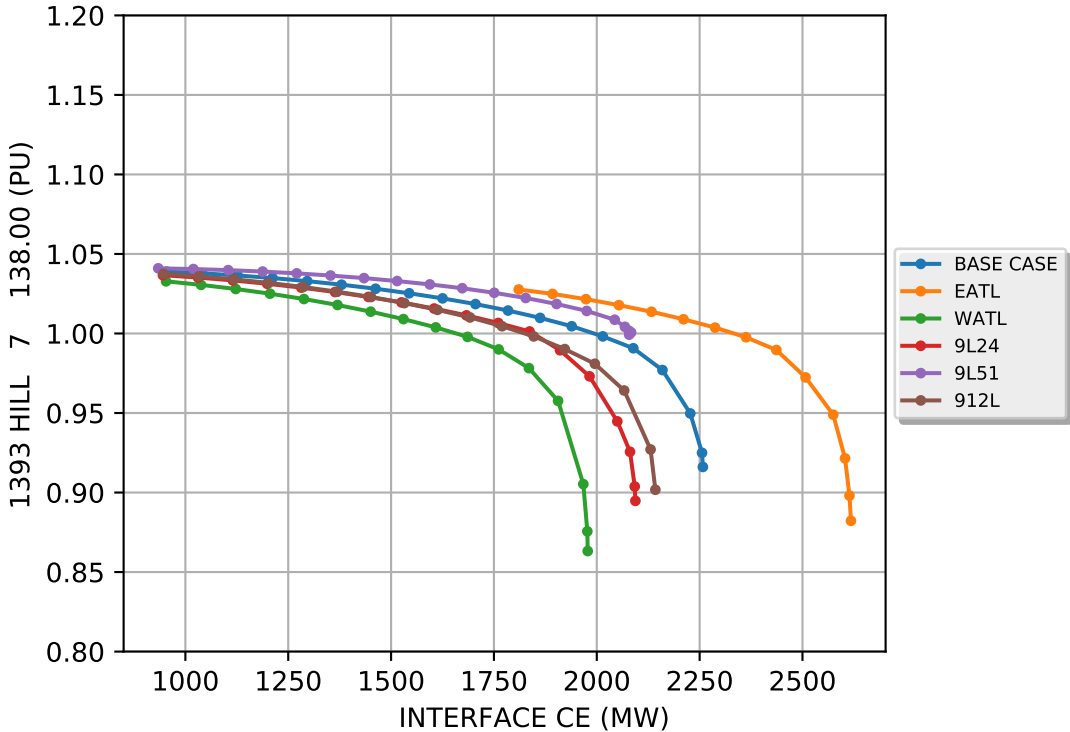


Figure: E-3-91

Case: M12, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 44.6%

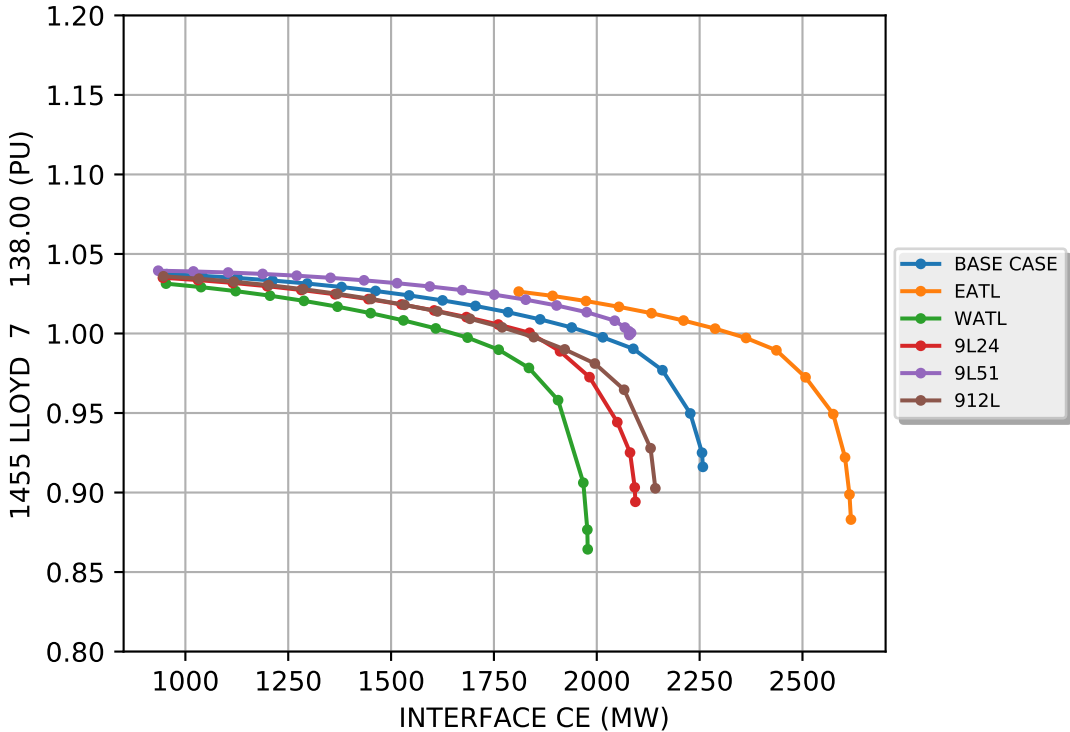


Figure: E-3-92

Case: M12, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 44.6%

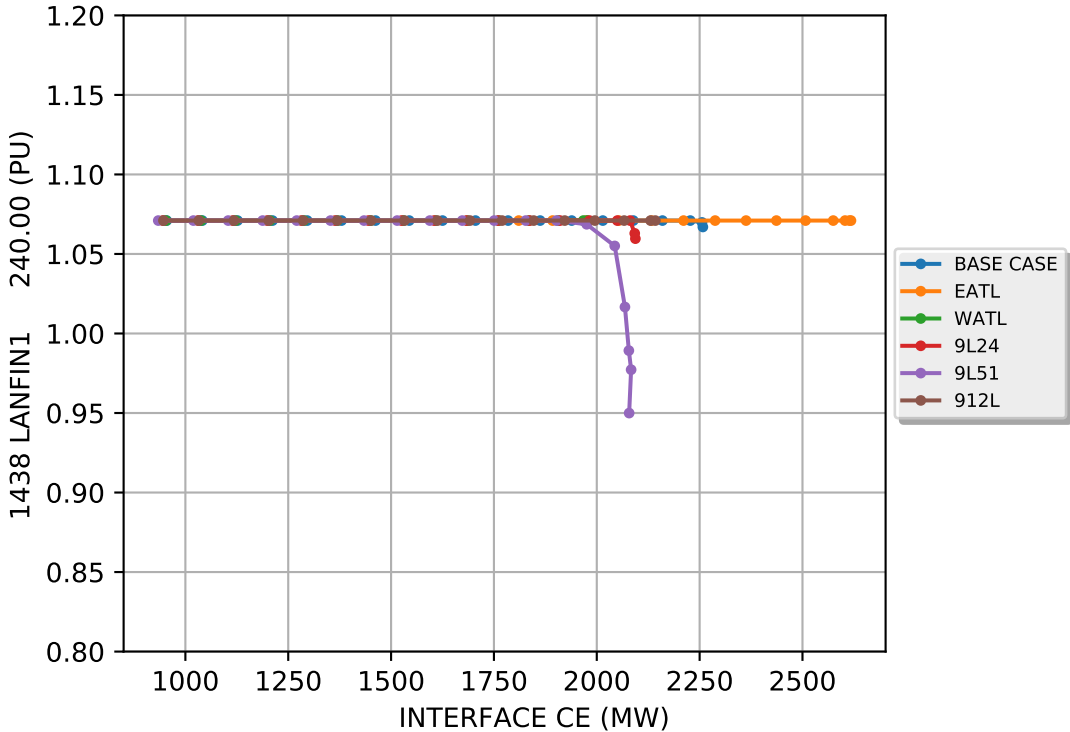


Figure: E-3-93

Case: M12, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 44.6%

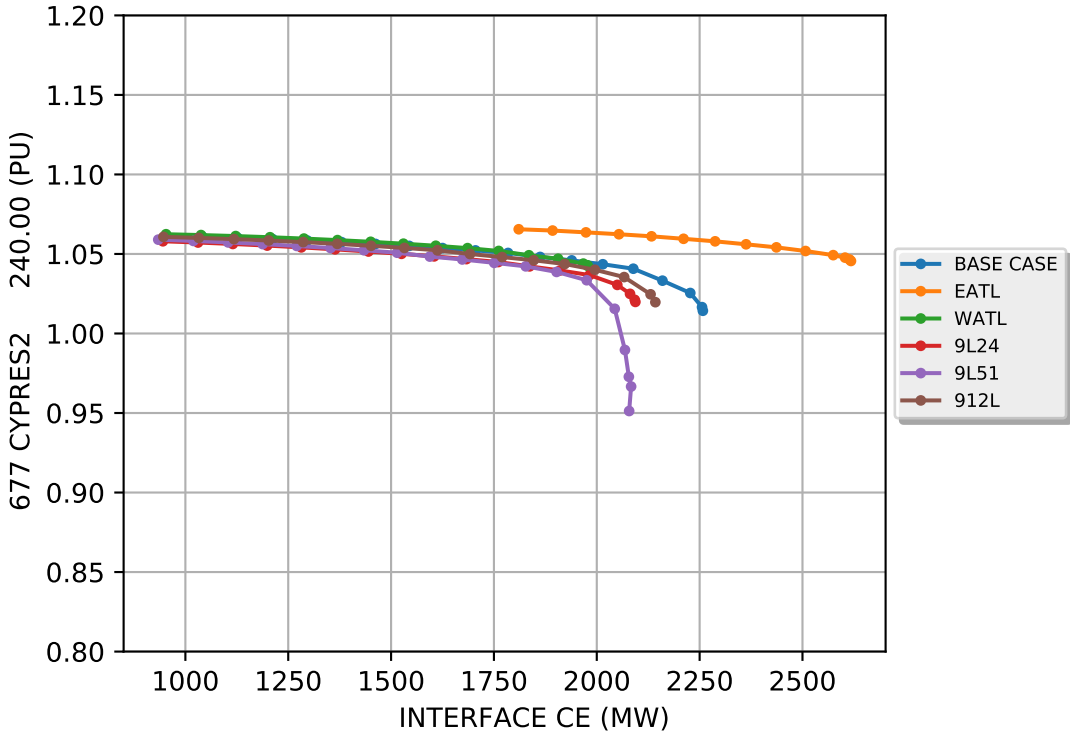


Figure: E-3-94

Case: M12, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 44.6%

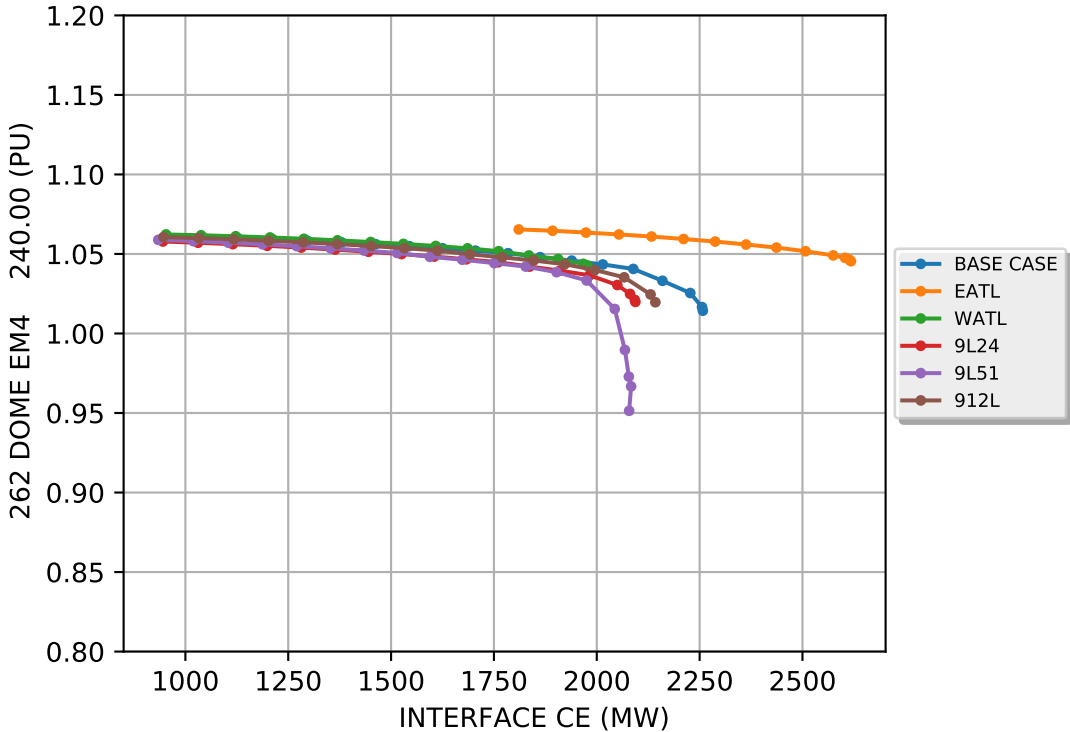


Figure: E-3-95

Case: M12, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 44.6%

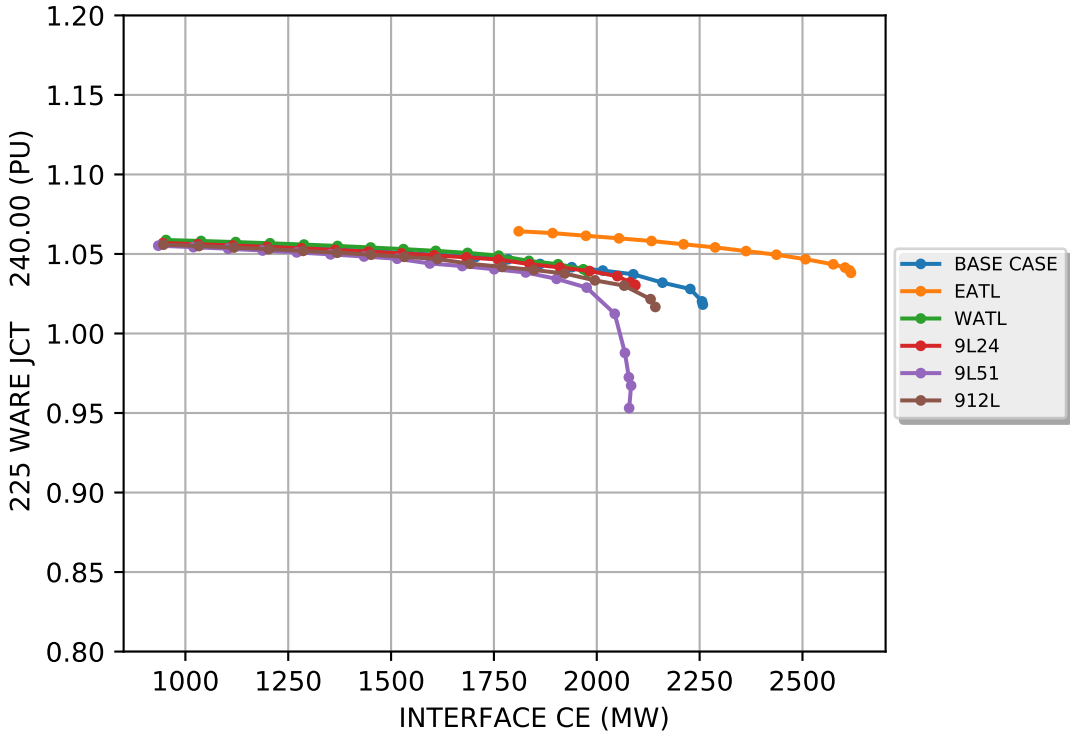


Figure: E-3-96

Case: M12, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 44.6%

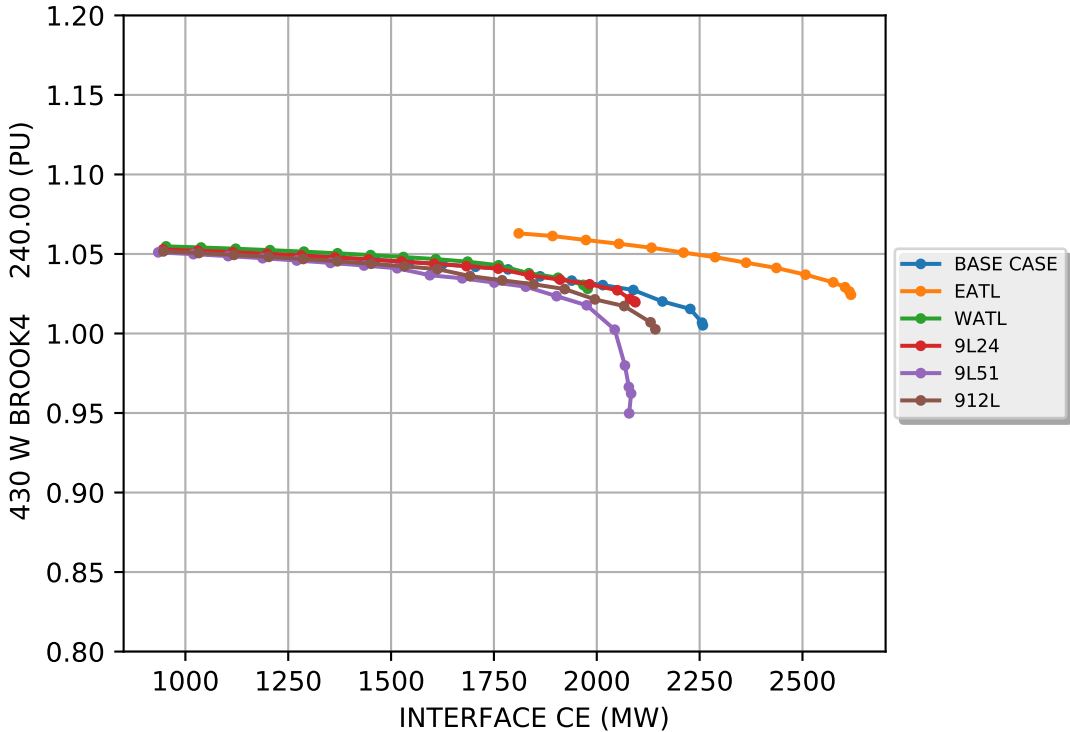


Figure: E-3-97

Case: M13, Option: BOTH2

Min Voltage: 0.81 PU, Min Margin: 28.6%

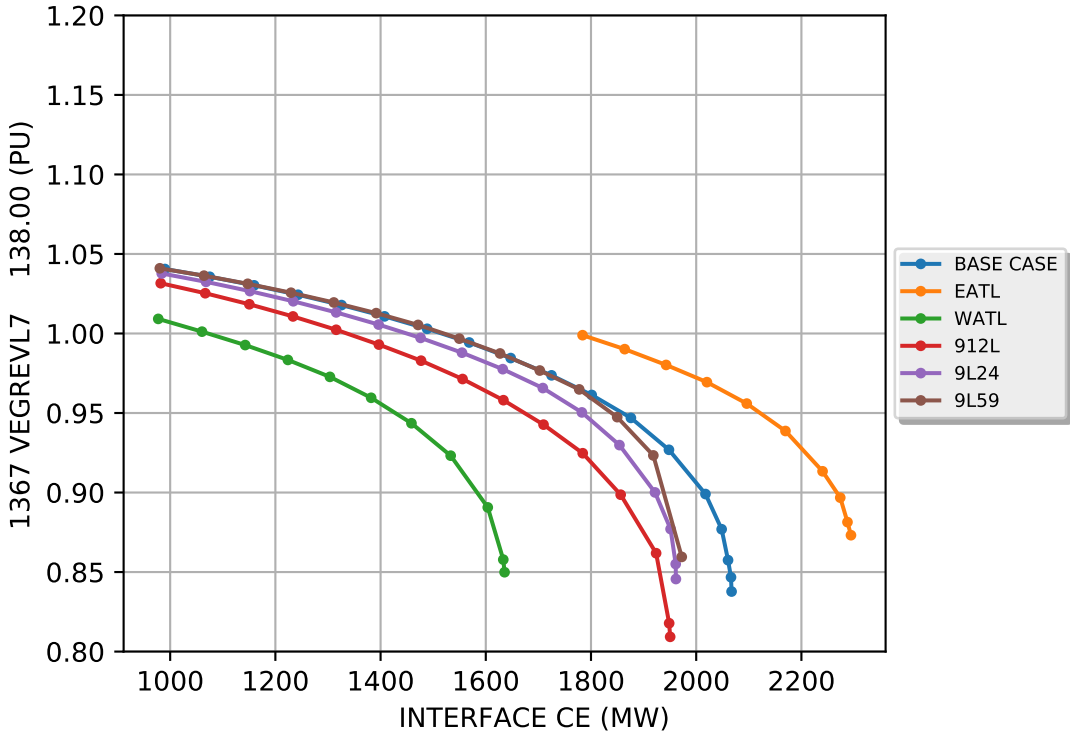


Figure: E-3-98

Case: M13, Option: BOTH2

Min Voltage: 0.82 PU, Min Margin: 28.6%

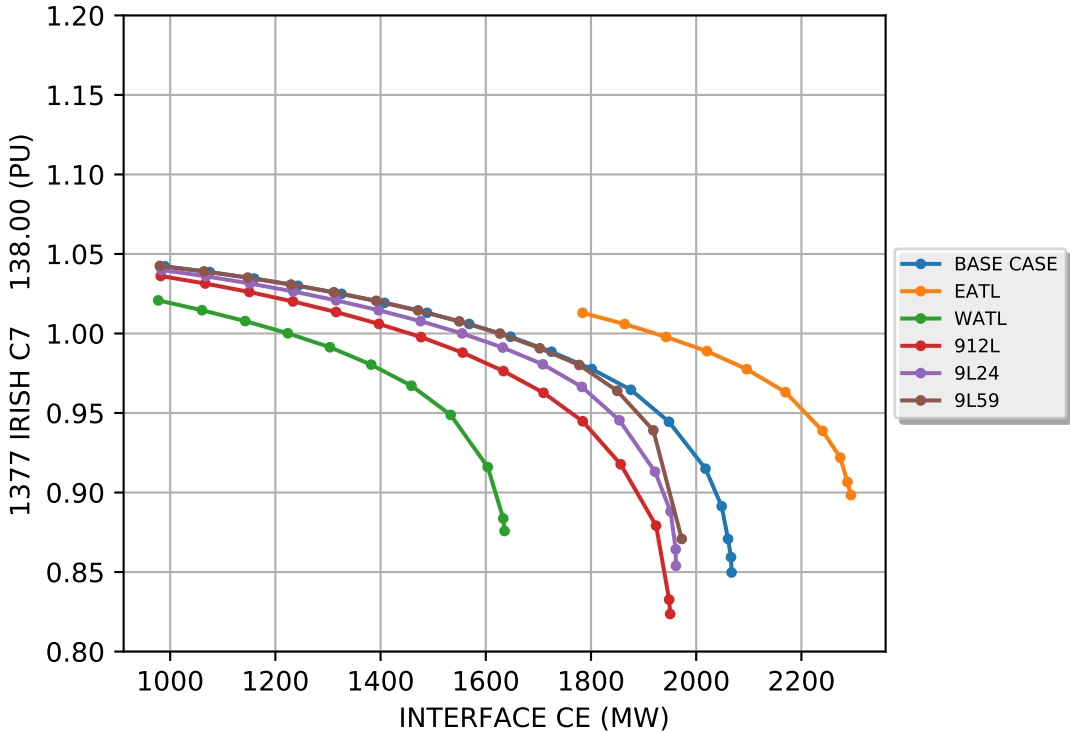


Figure: E-3-99

Case: M13, Option: BOTH2

Min Voltage: 0.84 PU, Min Margin: 28.6%

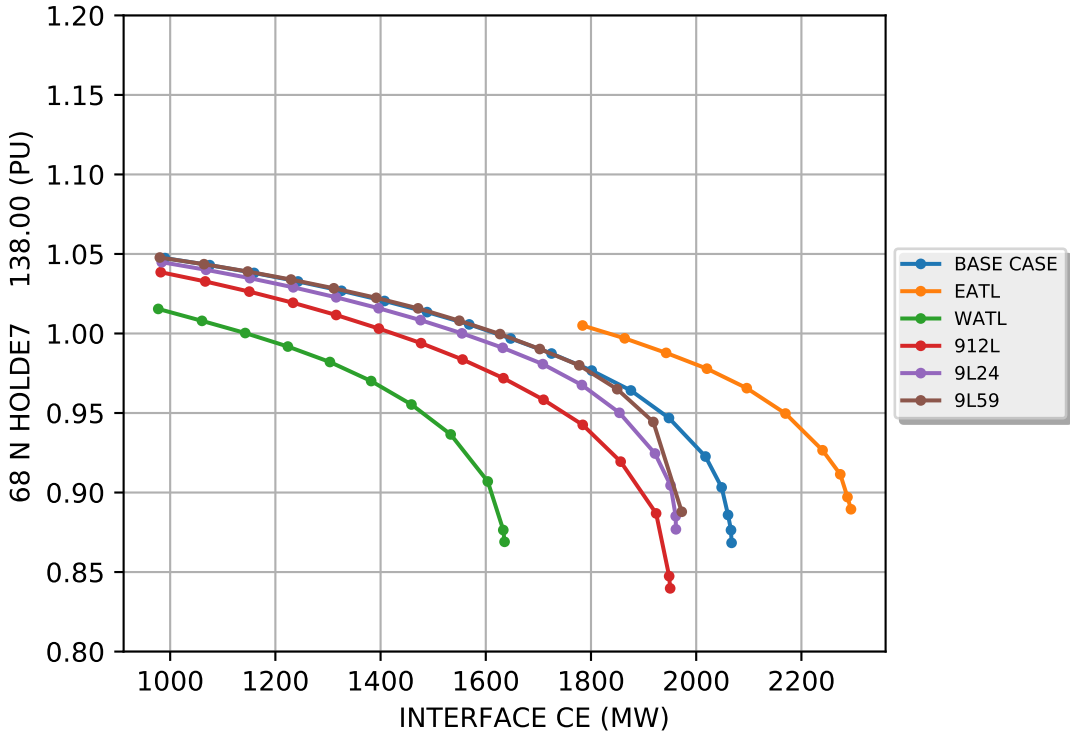


Figure: E-3-100

Case: M13, Option: BOTH2

Min Voltage: 0.87 PU, Min Margin: 28.6%

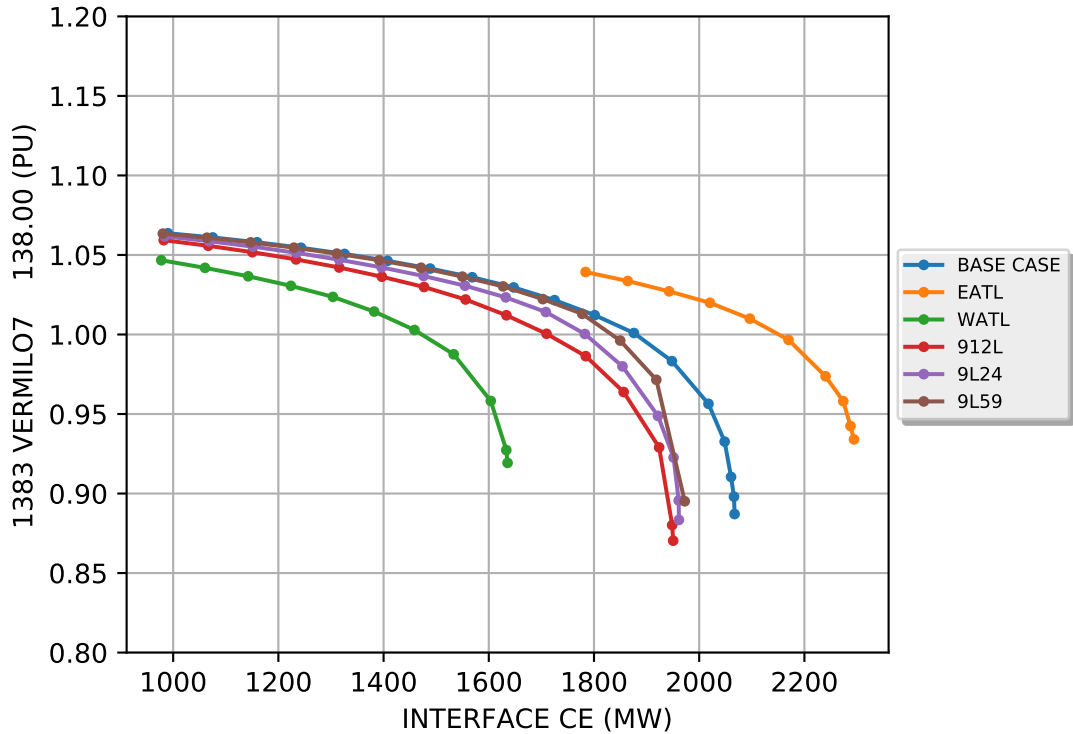


Figure: E-3-101

Case: M13, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 28.6%

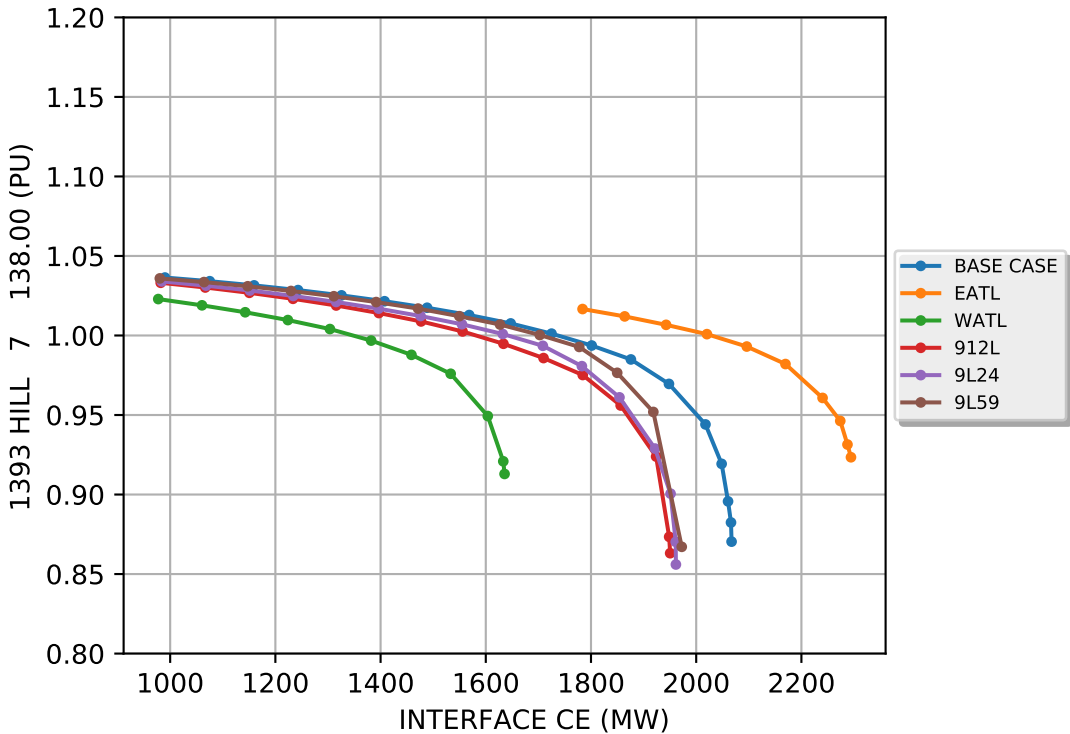


Figure: E-3-102

Case: M13, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 28.6%

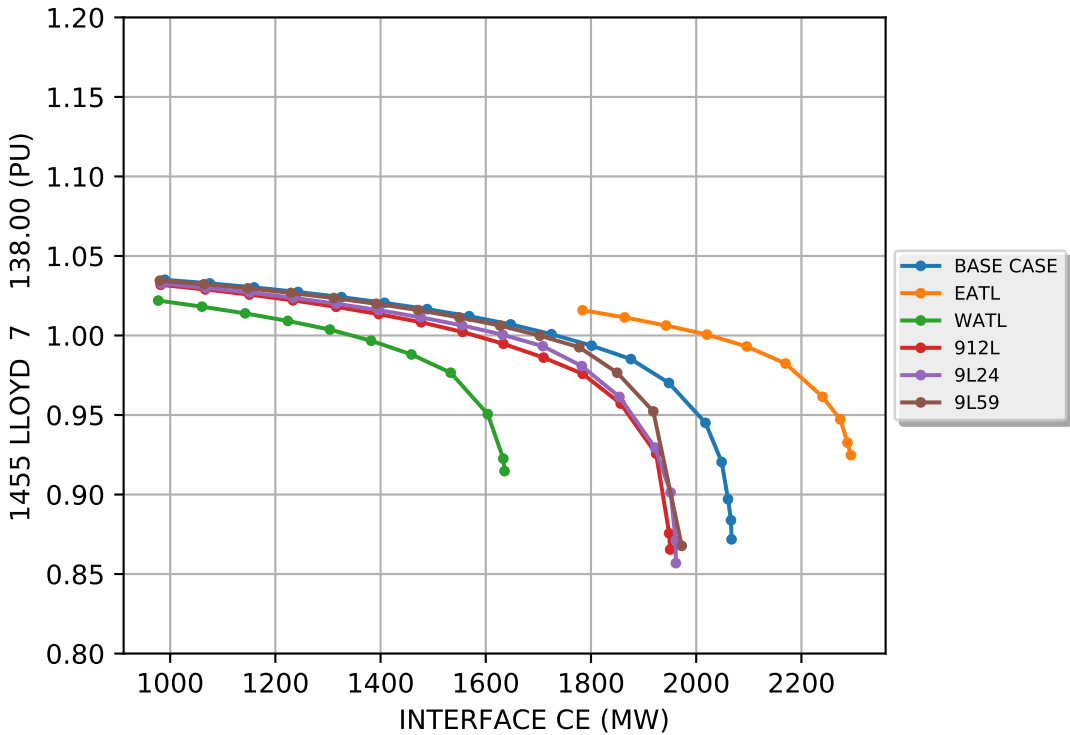


Figure: E-3-103

Case: M14, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 47.1%

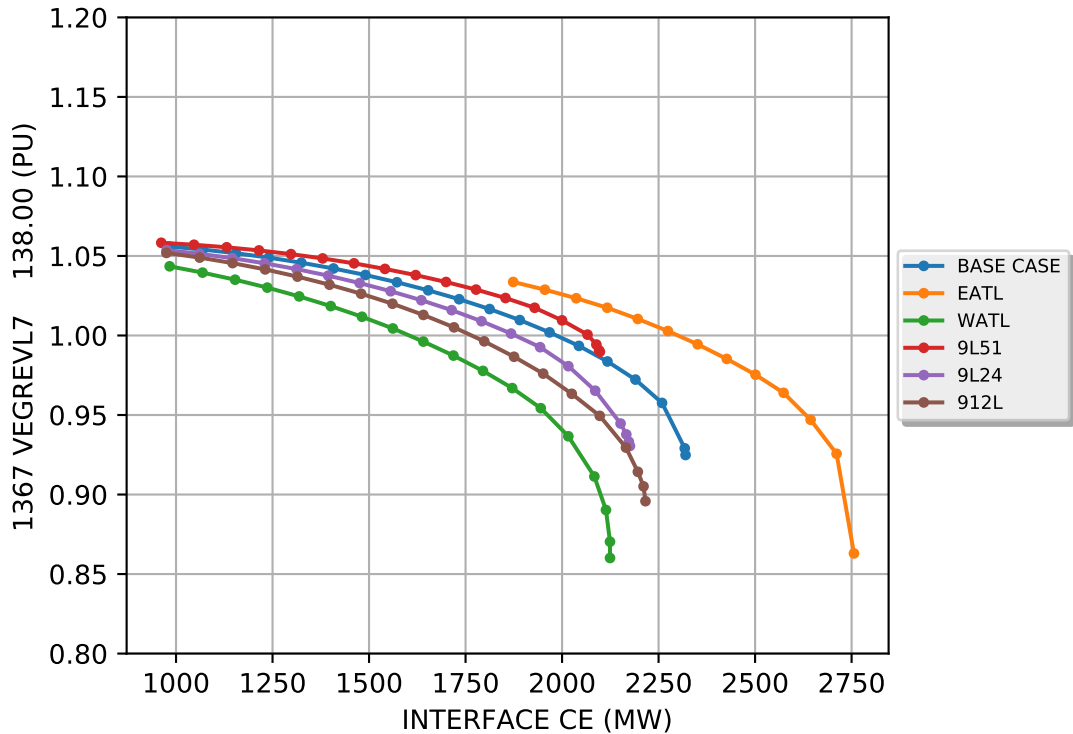


Figure: E-3-104

Case: M14, Option: BOTH2

Min Voltage: 0.88 PU, Min Margin: 47.1%

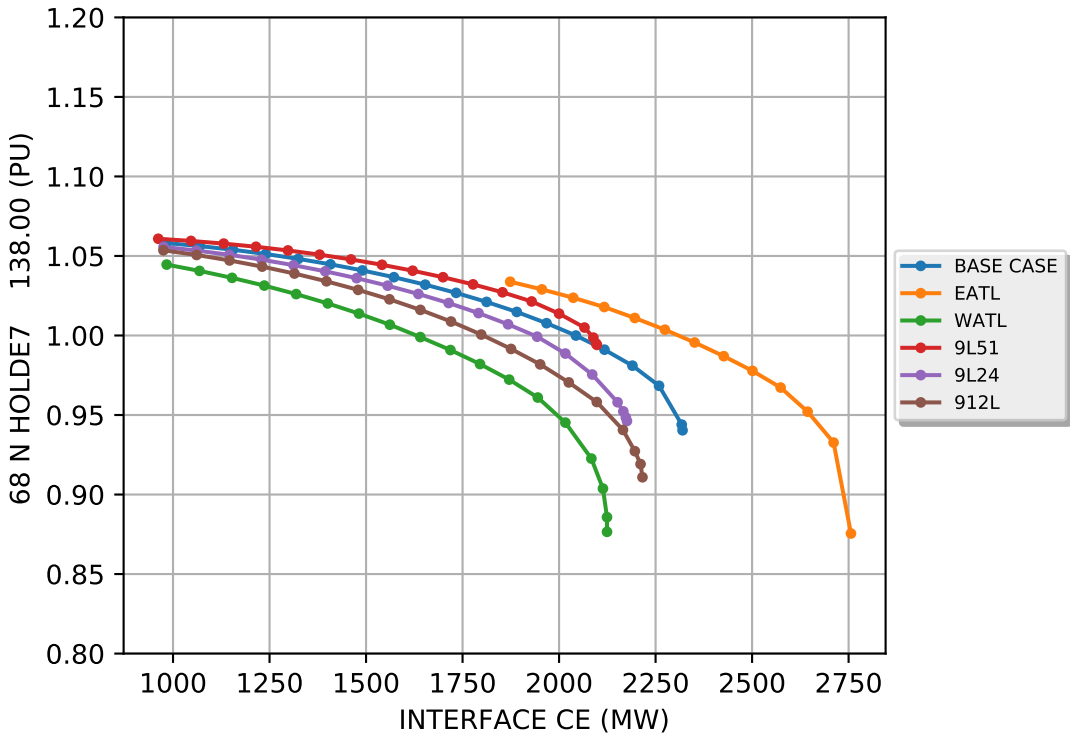


Figure: E-3-105

Case: M14, Option: BOTH2

Min Voltage: 0.88 PU, Min Margin: 47.1%

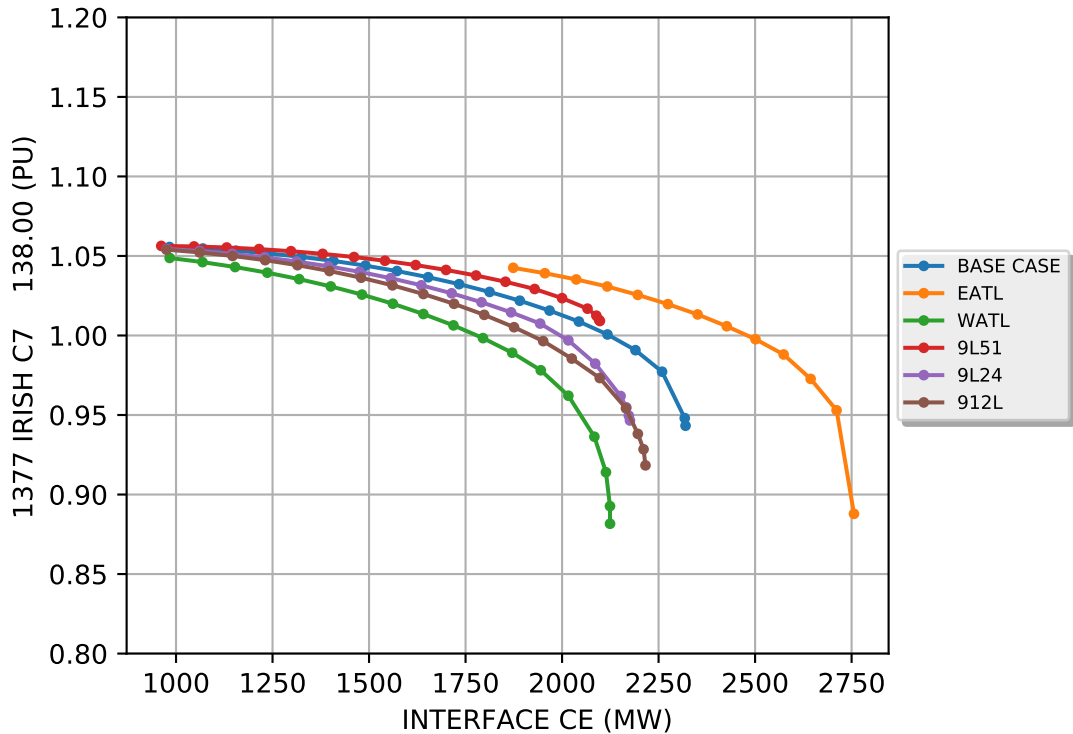


Figure: E-3-106

Case: M14, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 47.1%

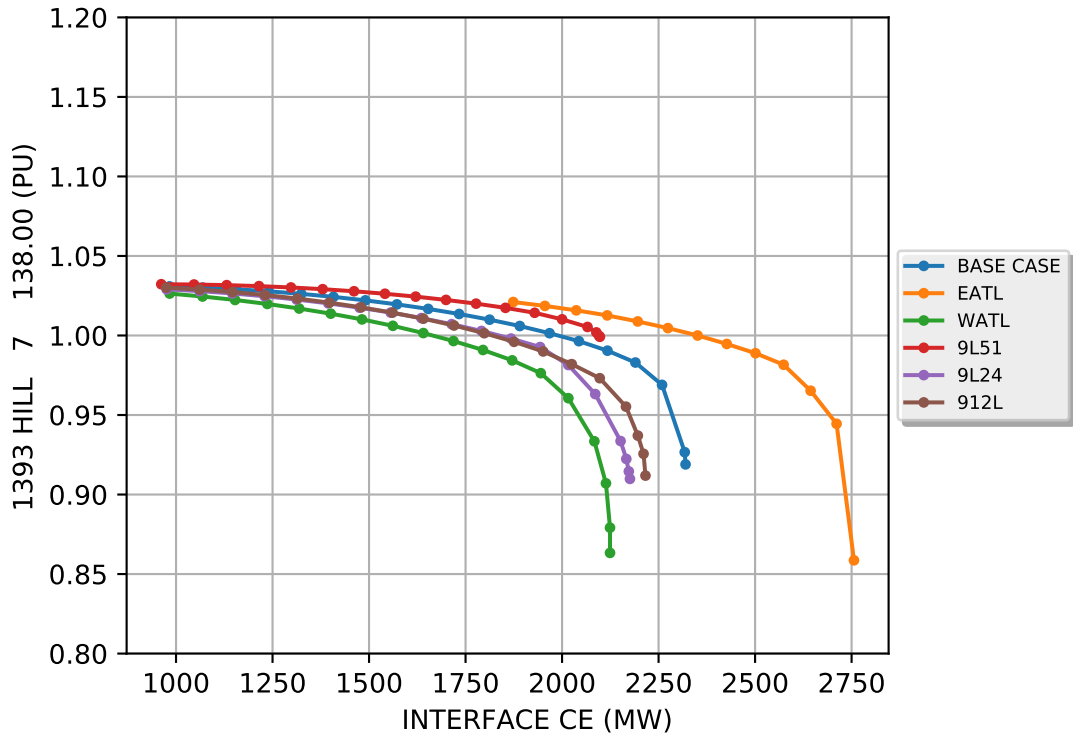


Figure: E-3-107

Case: M14, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 47.1%

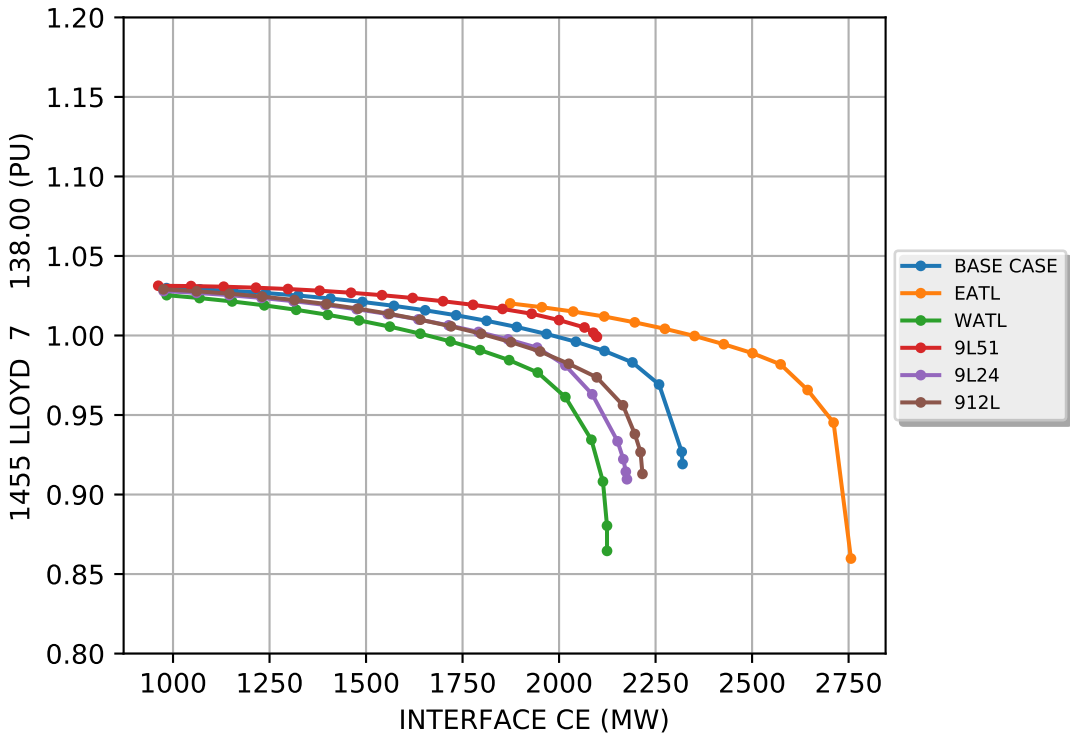


Figure: E-3-108

Case: M14, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 47.1%

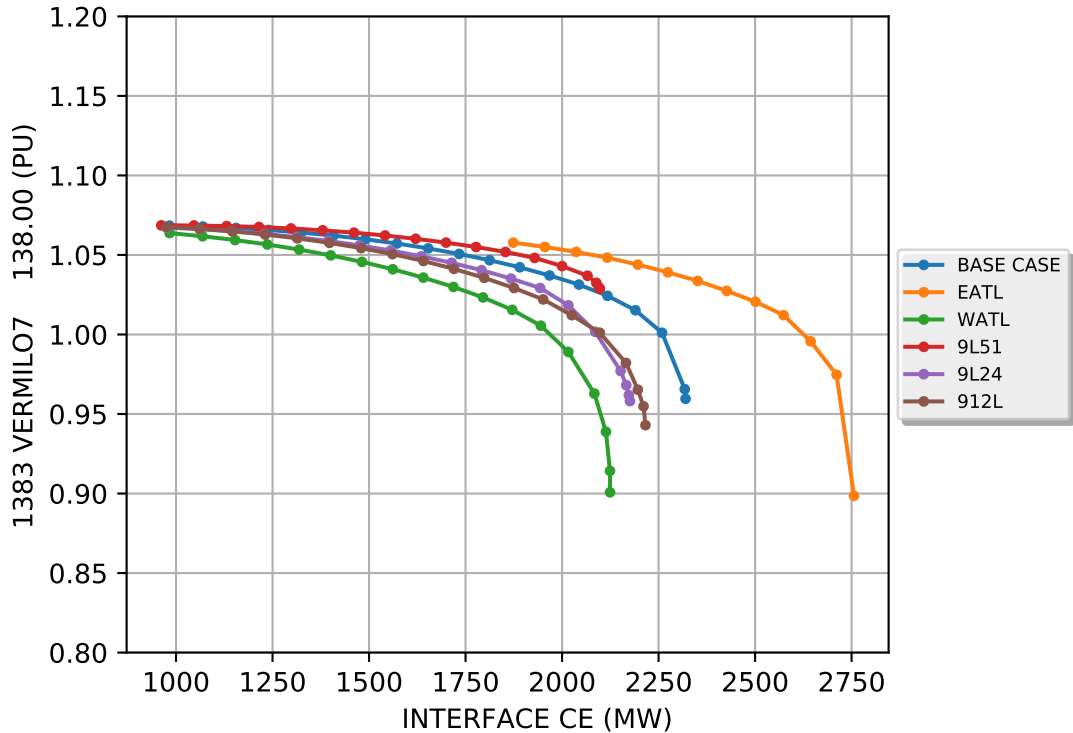


Figure: E-3-109

Case: M14, Option: BOTH2

Min Voltage: 0.96 PU, Min Margin: 47.1%

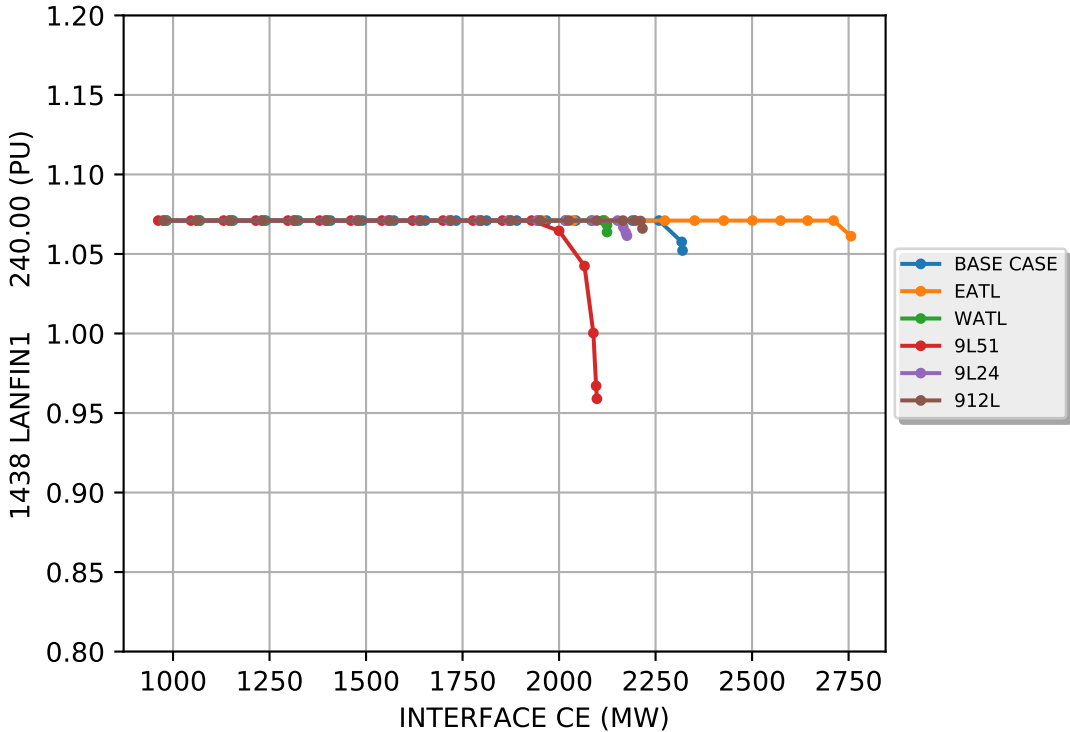


Figure: E-3-110

Case: M14, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 47.1%

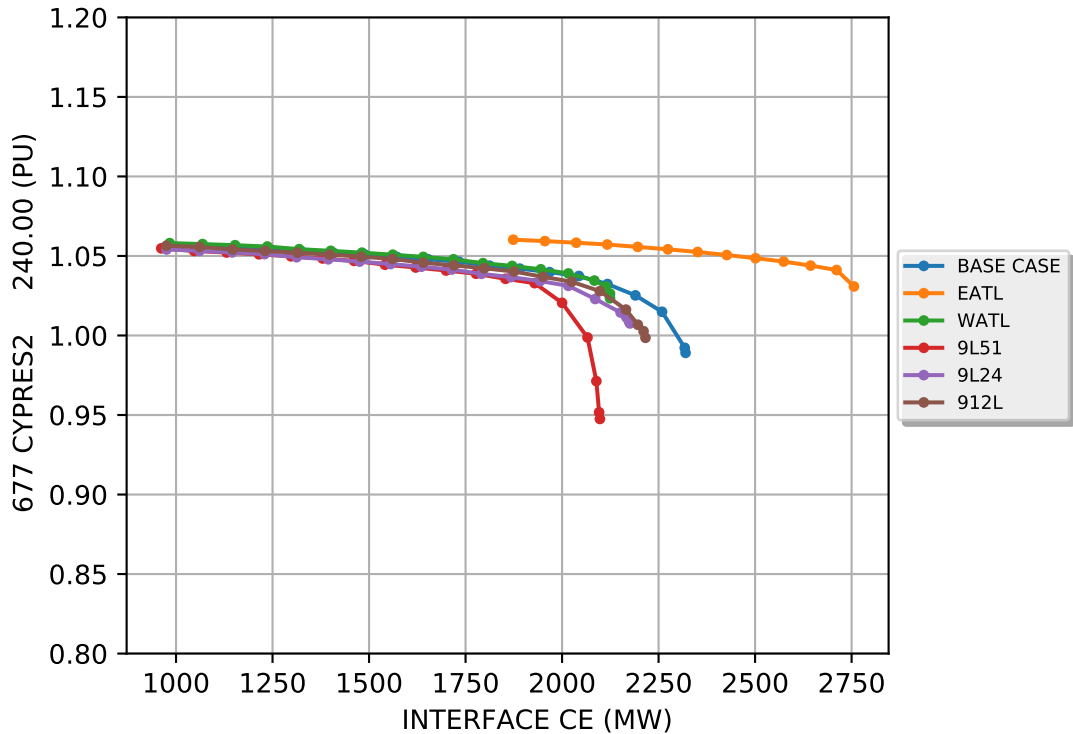


Figure: E-3-111

Case: M14, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 47.1%

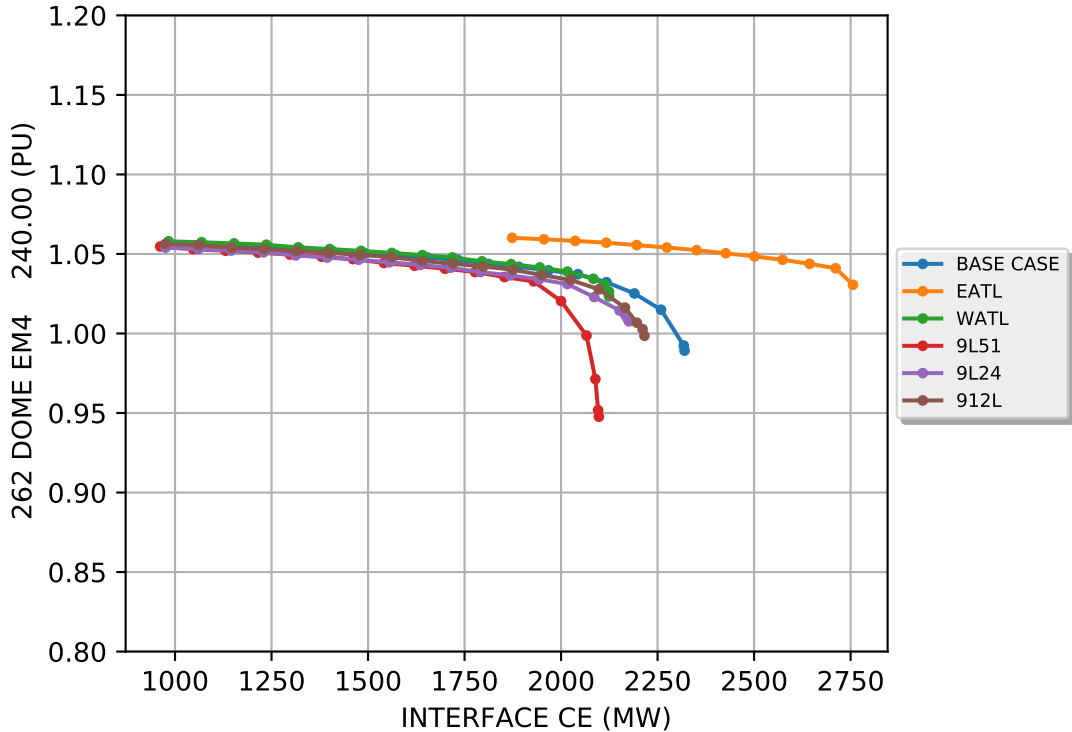


Figure: E-3-112

Case: M14, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 47.1%

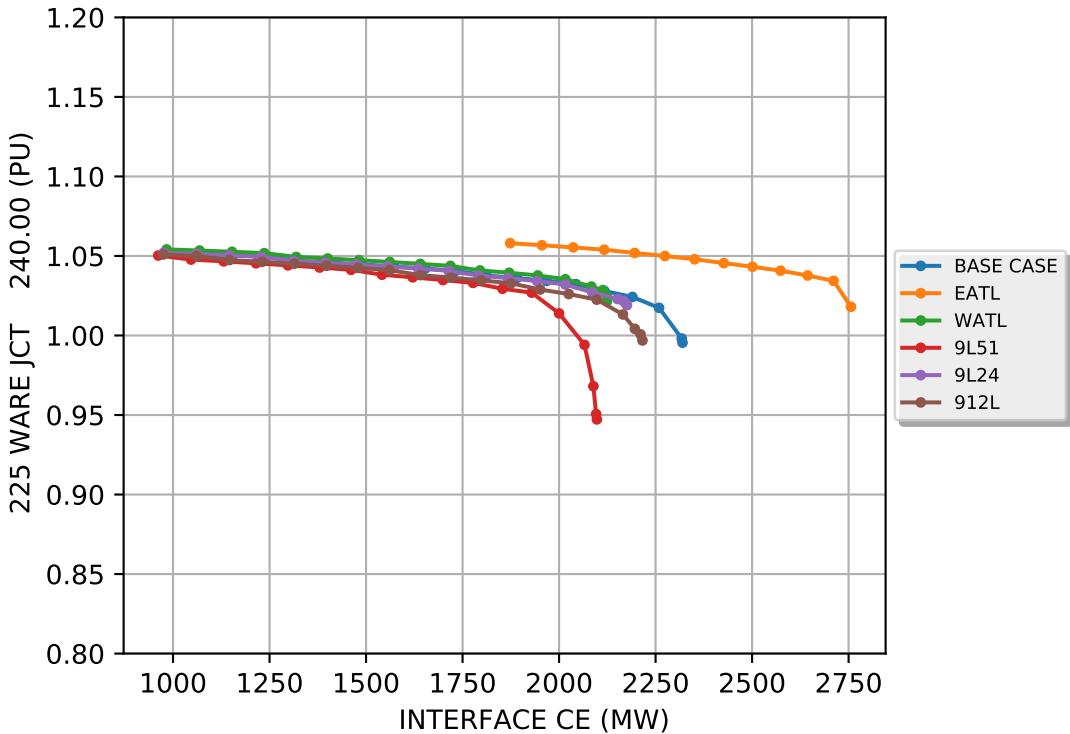


Figure: E-3-113

Case: M14, Option: BOTH2

Min Voltage: 0.94 PU, Min Margin: 47.1%

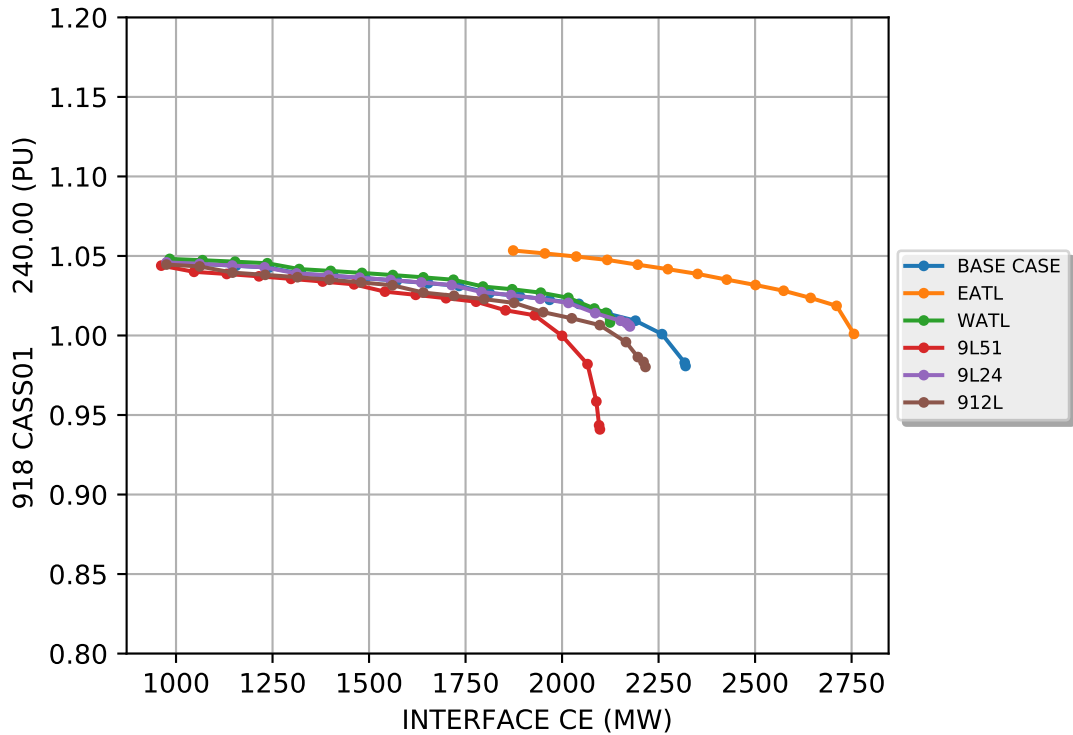


Figure: E-3-114

Case: H8, Option: BOTHC2

Min Voltage: 0.87 PU, Min Margin: 27.0%

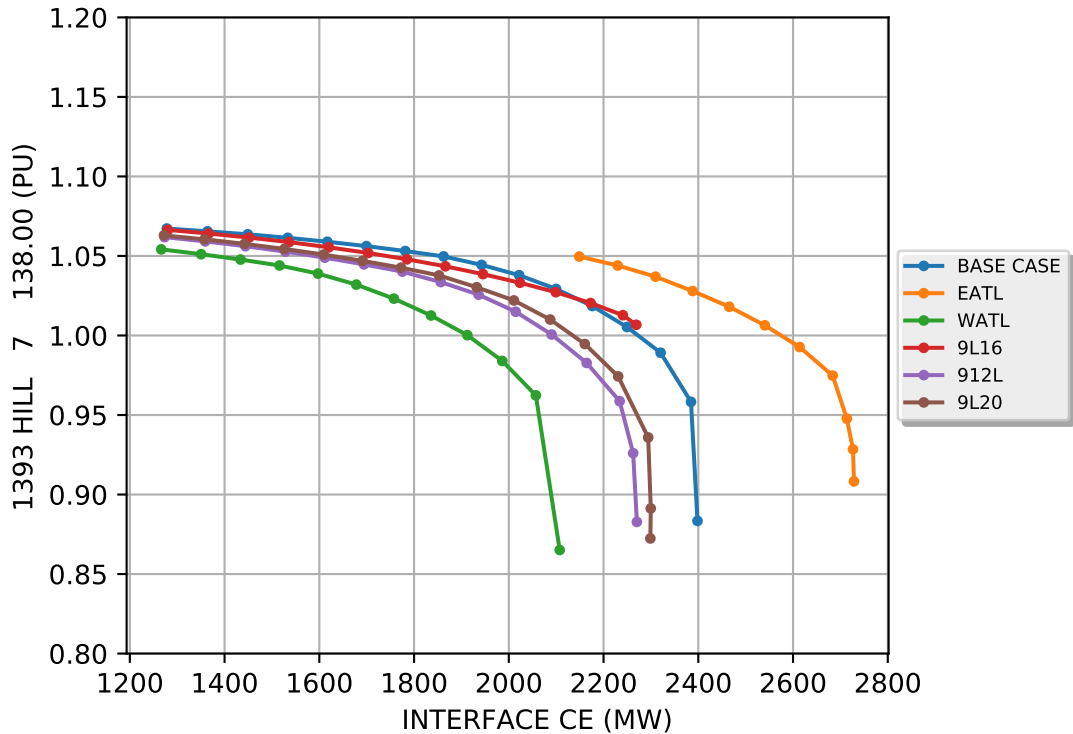


Figure: E-3-115

Case: H8, Option: BOTHC2

Min Voltage: 0.80 PU, Min Margin: 27.0%

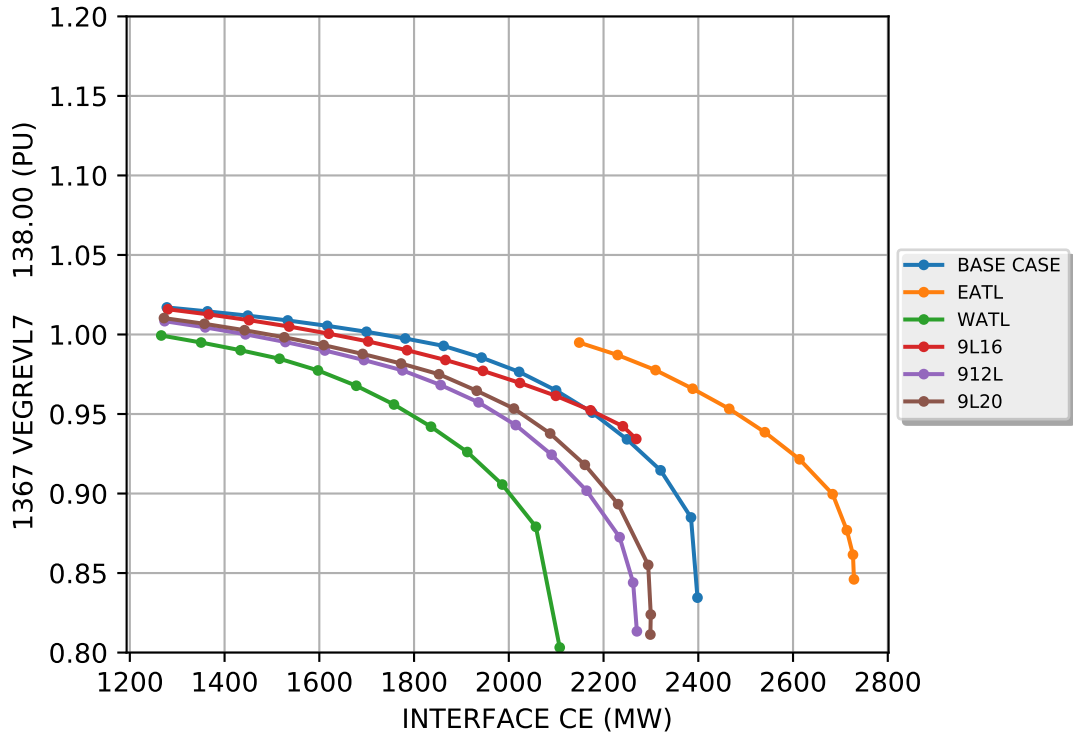


Figure: E-3-116

Case: H8, Option: BOTHC2

Min Voltage: 0.85 PU, Min Margin: 27.0%

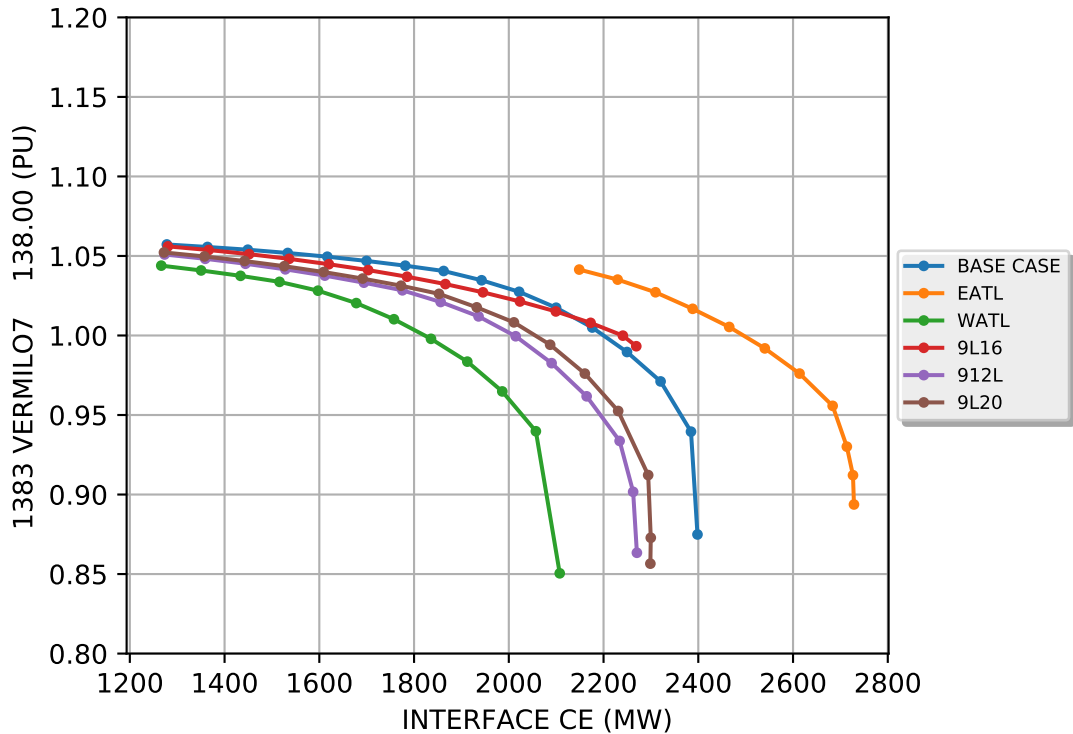


Figure: E-3-117

Case: H8, Option: BOTHC2

Min Voltage: 0.87 PU, Min Margin: 27.0%

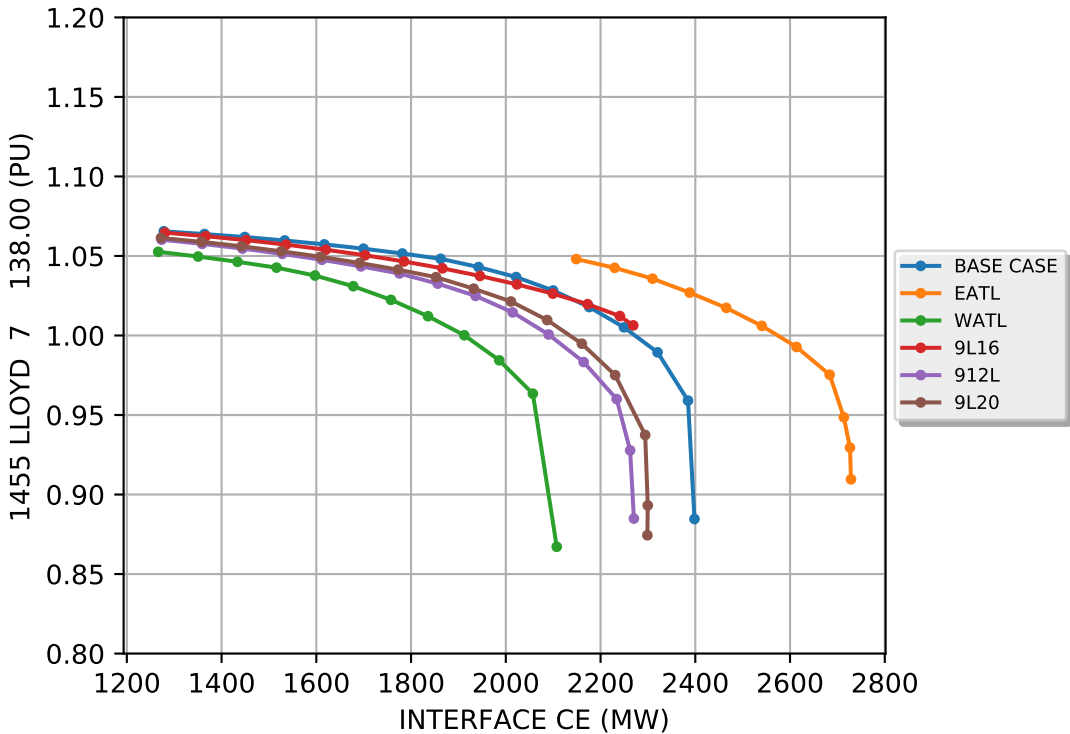


Figure: E-3-118

Case: H8, Option: BOTHC2

Min Voltage: 0.85 PU, Min Margin: 27.0%

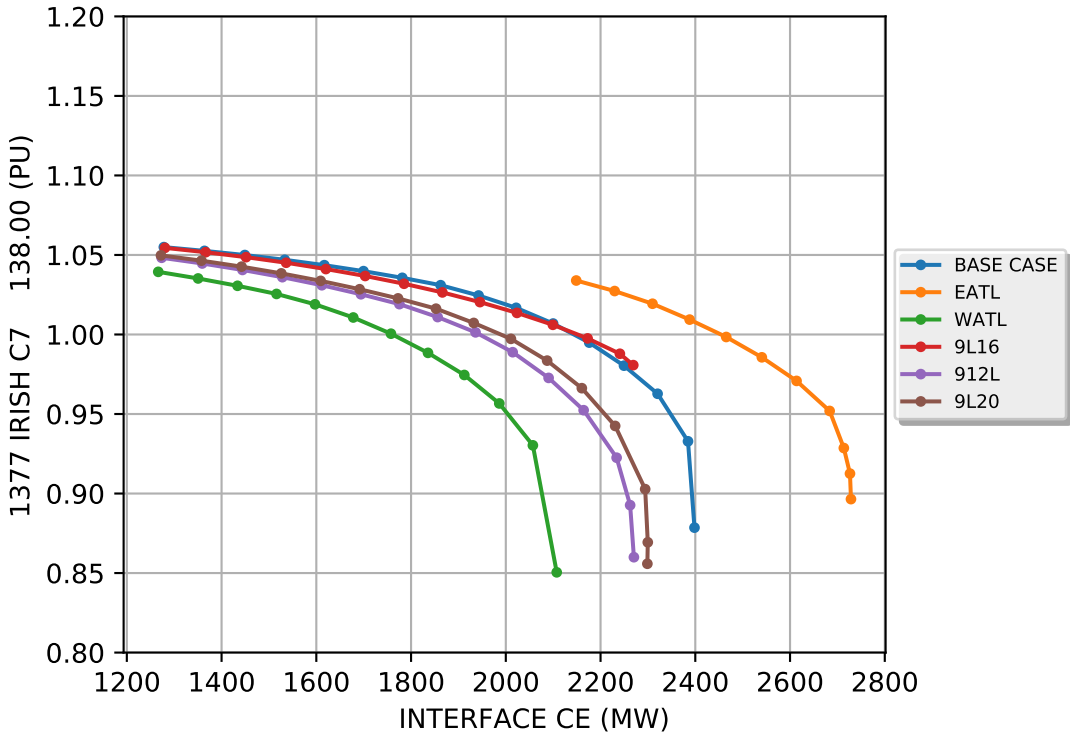


Figure: E-3-119

Case: H8, Option: BOTHC2

Min Voltage: 0.83 PU, Min Margin: 27.0%

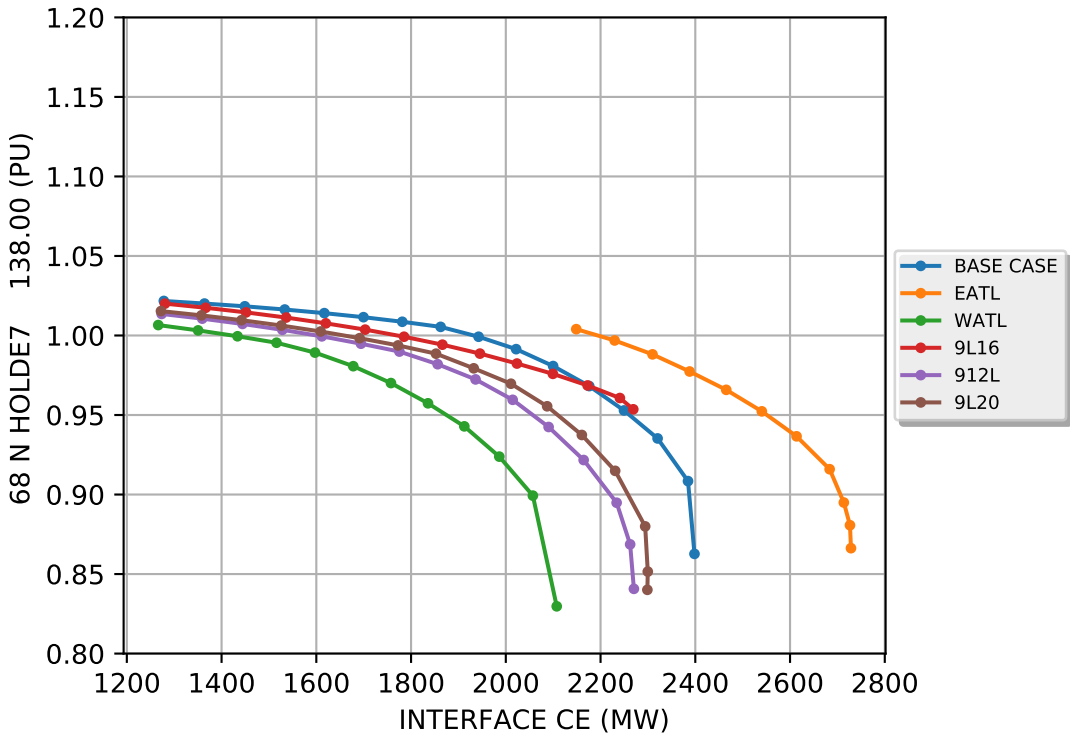


Figure: E-3-120

Case: H8, Option: BOTHC2

Min Voltage: 0.86 PU, Min Margin: 27.0%

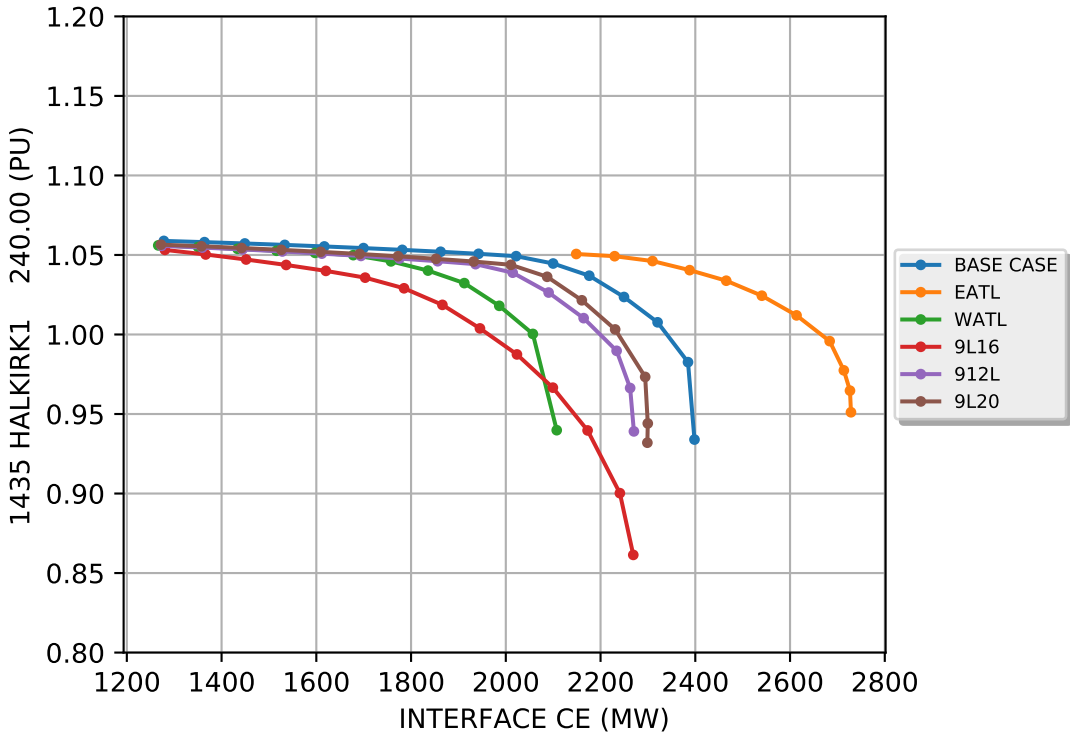


Figure: E-3-121

Case: H8, Option: BOTHC2

Min Voltage: 0.86 PU, Min Margin: 27.0%

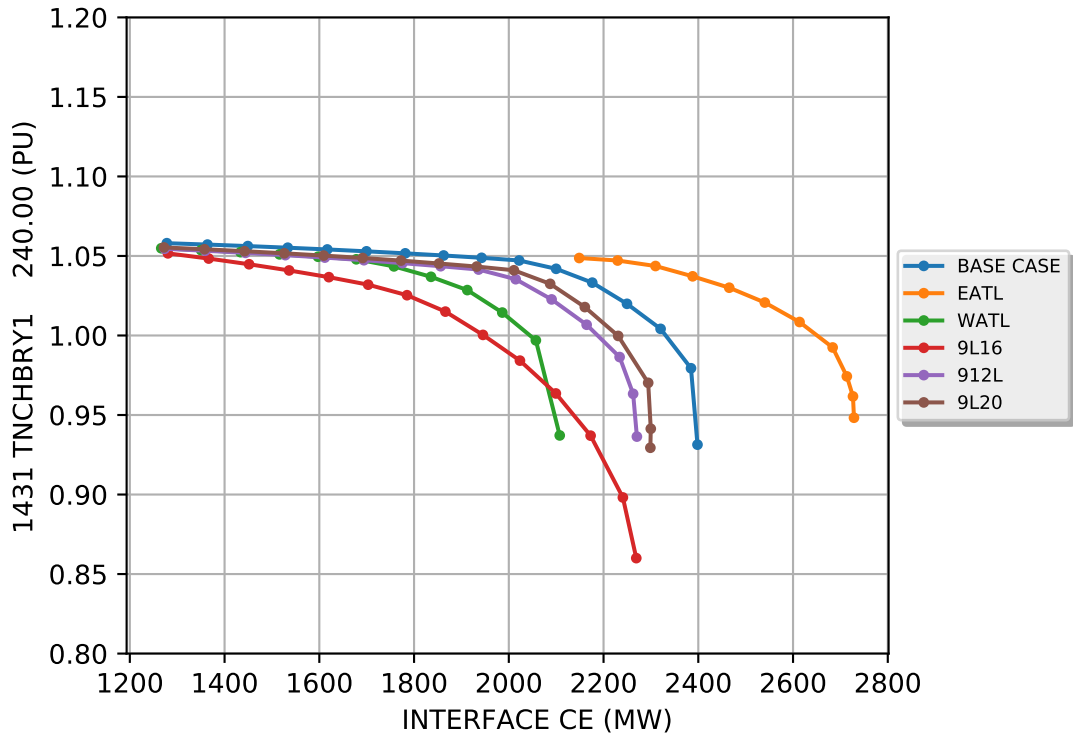


Figure: E-3-122

Case: H8, Option: BOTHC2

Min Voltage: 0.92 PU, Min Margin: 27.0%

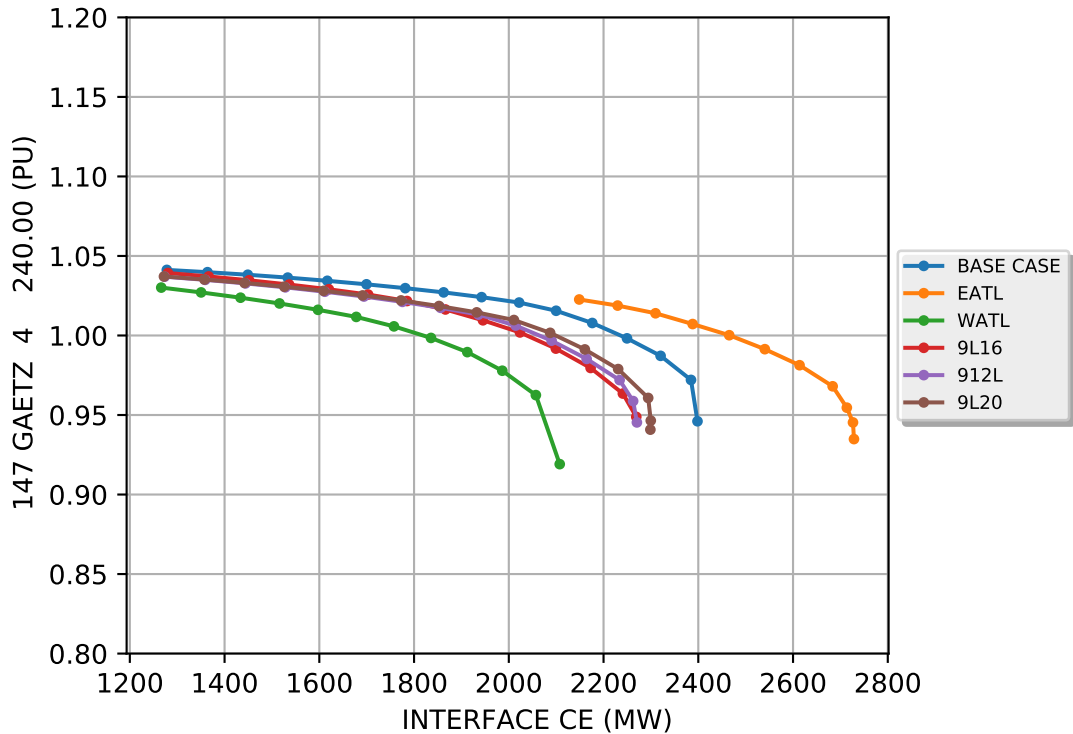


Figure: E-3-123

Case: M10, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 42.5%

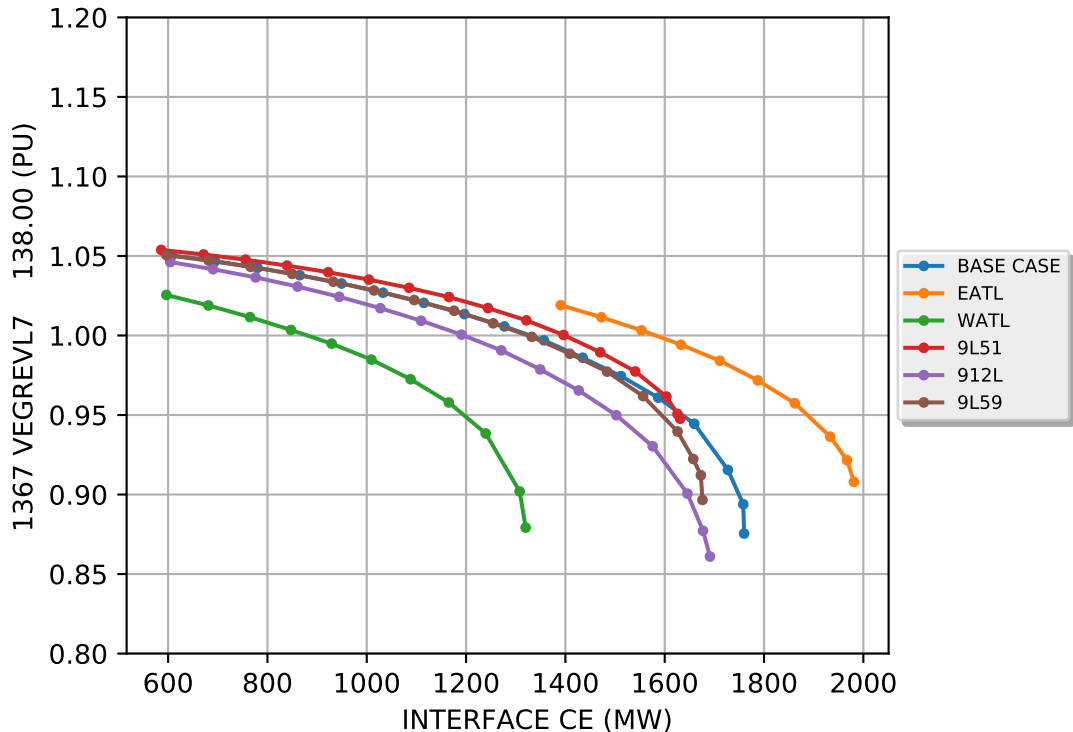


Figure: E-3-124

Case: M10, Option: BOTH2

Min Voltage: 0.87 PU, Min Margin: 42.5%

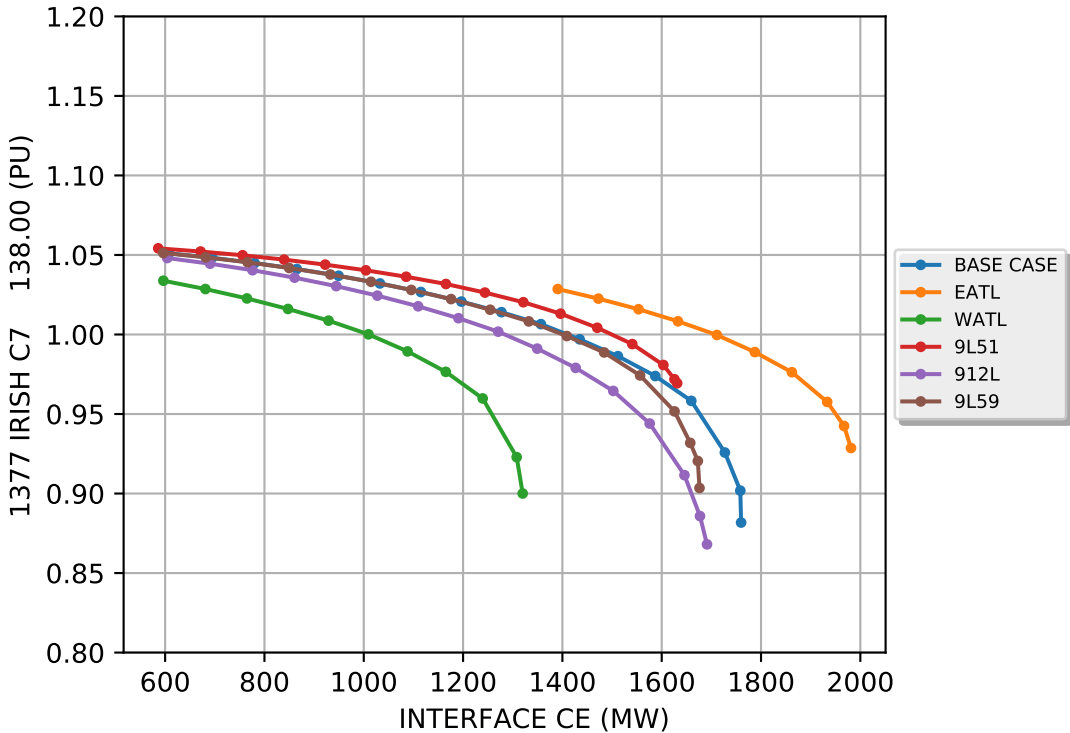


Figure: E-3-125

Case: M10, Option: BOTH2

Min Voltage: 0.88 PU, Min Margin: 42.5%

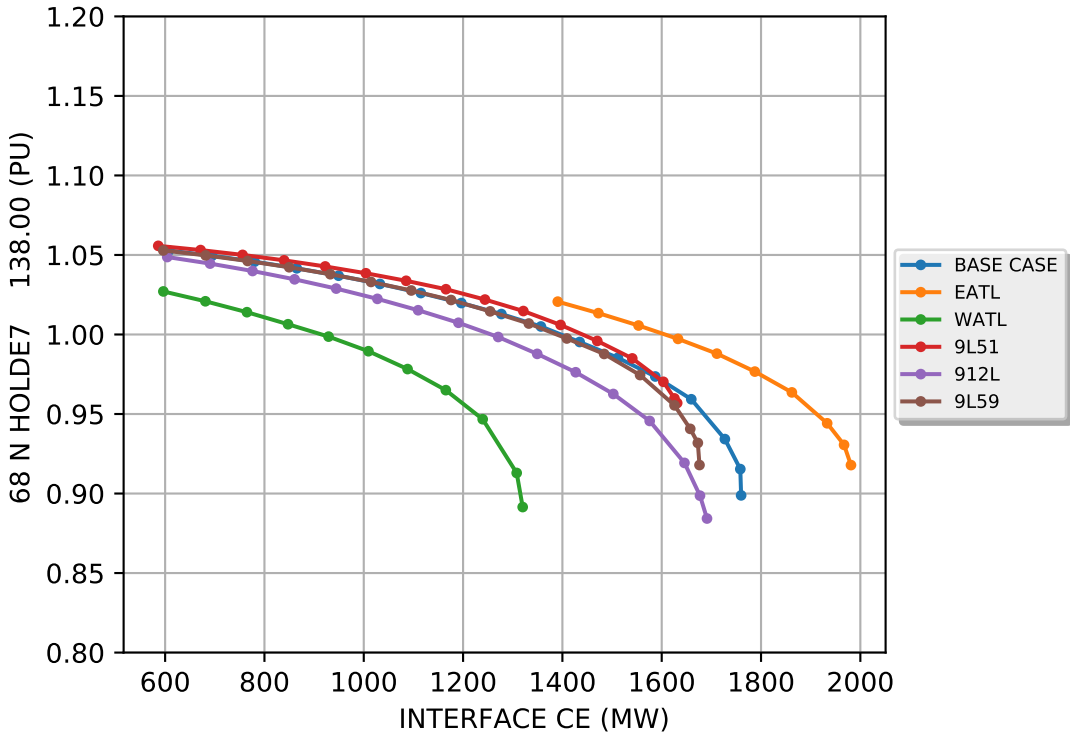


Figure: E-3-126

Case: M10, Option: BOTH2

Min Voltage: 0.92 PU, Min Margin: 42.5%

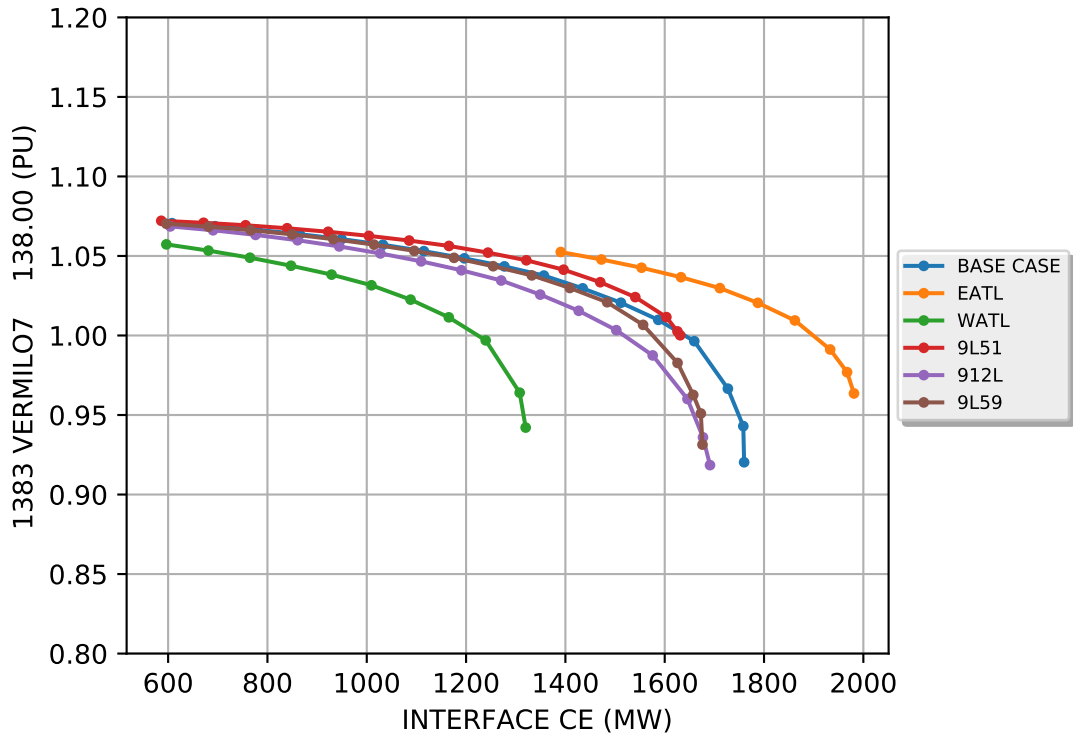


Figure: E-3-127

Case: M10, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 42.5%

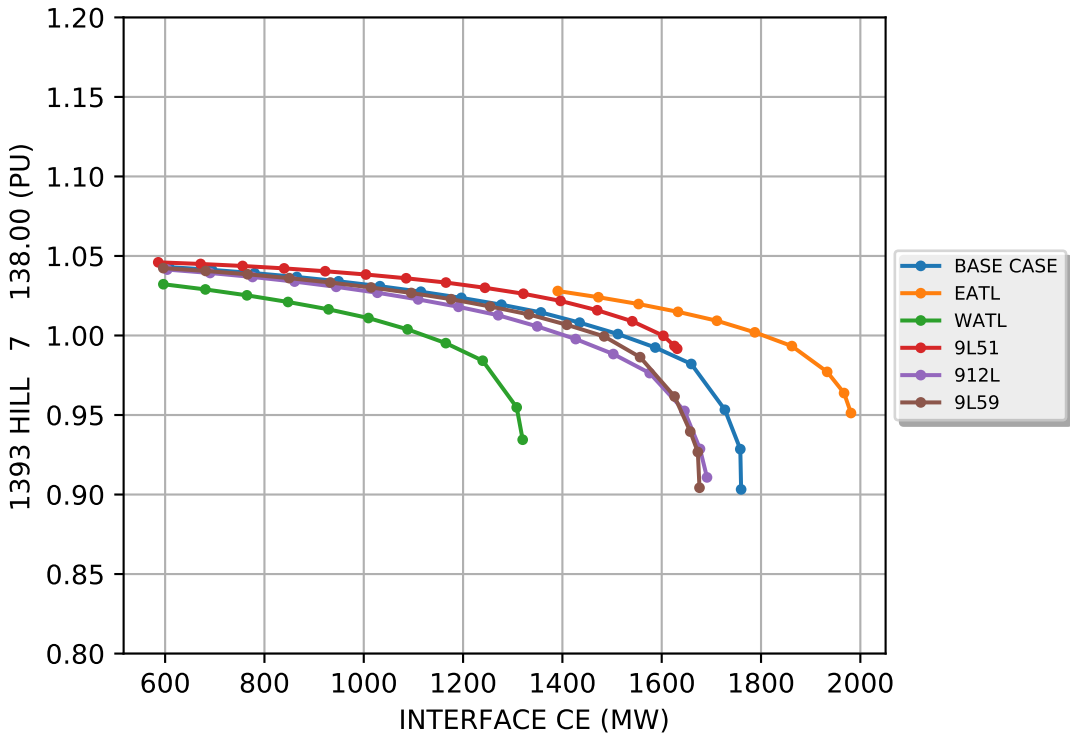


Figure: E-3-128

Case: M10, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 42.5%

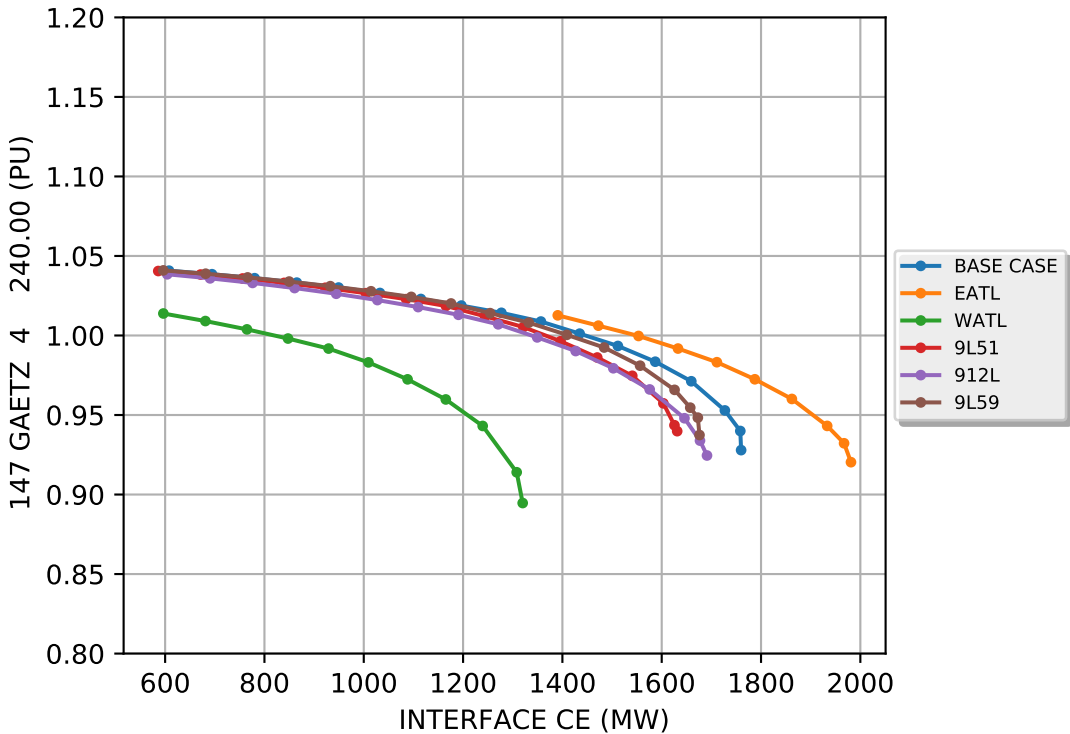


Figure: E-3-129

Case: M10, Option: BOTH2

Min Voltage: 0.91 PU, Min Margin: 42.5%

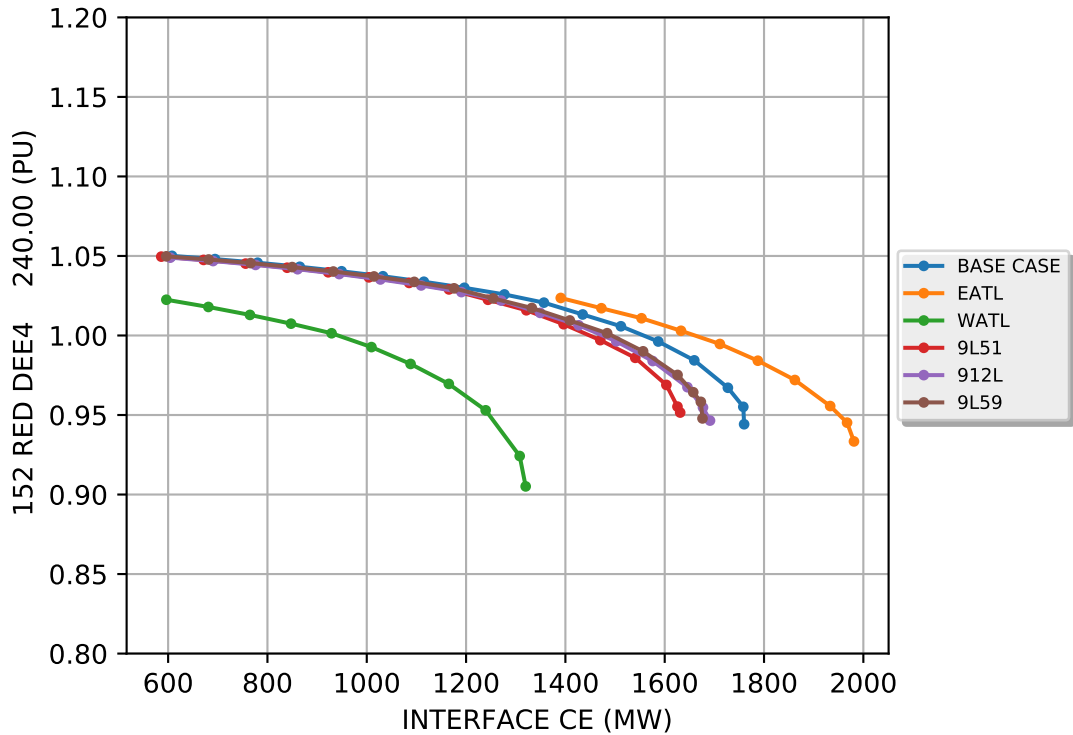


Figure: E-3-130

Case: M10, Option: BOTH2

Min Voltage: 0.96 PU, Min Margin: 42.5%

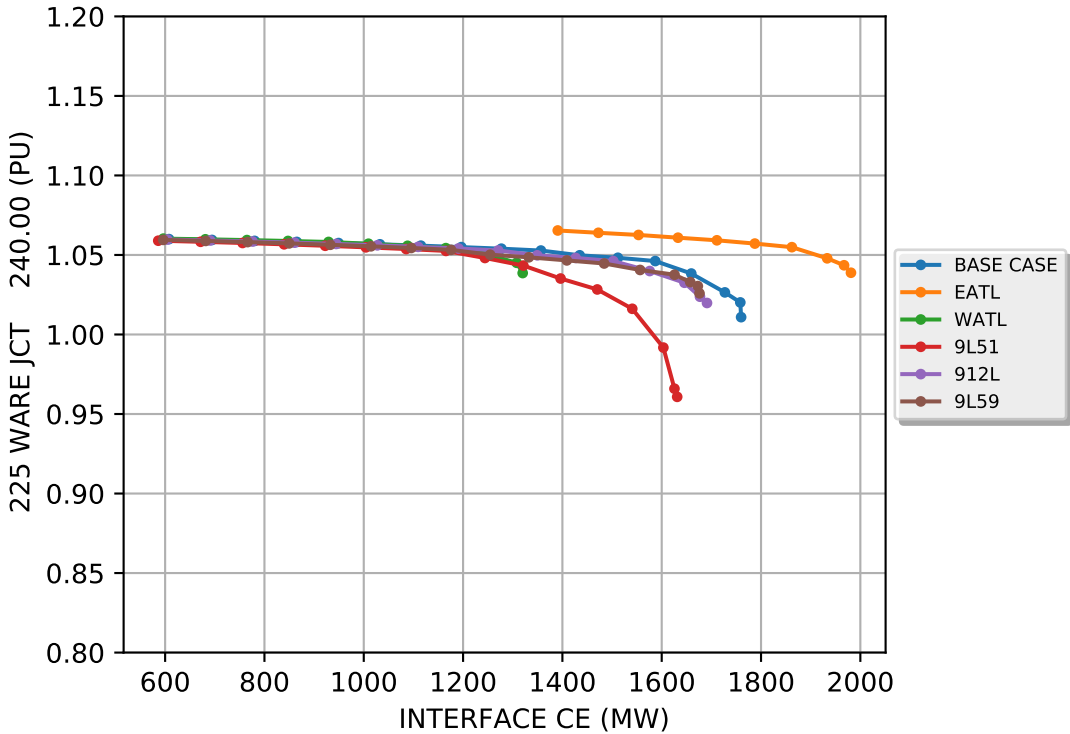


Figure: E-3-131

Case: M10, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 42.5%

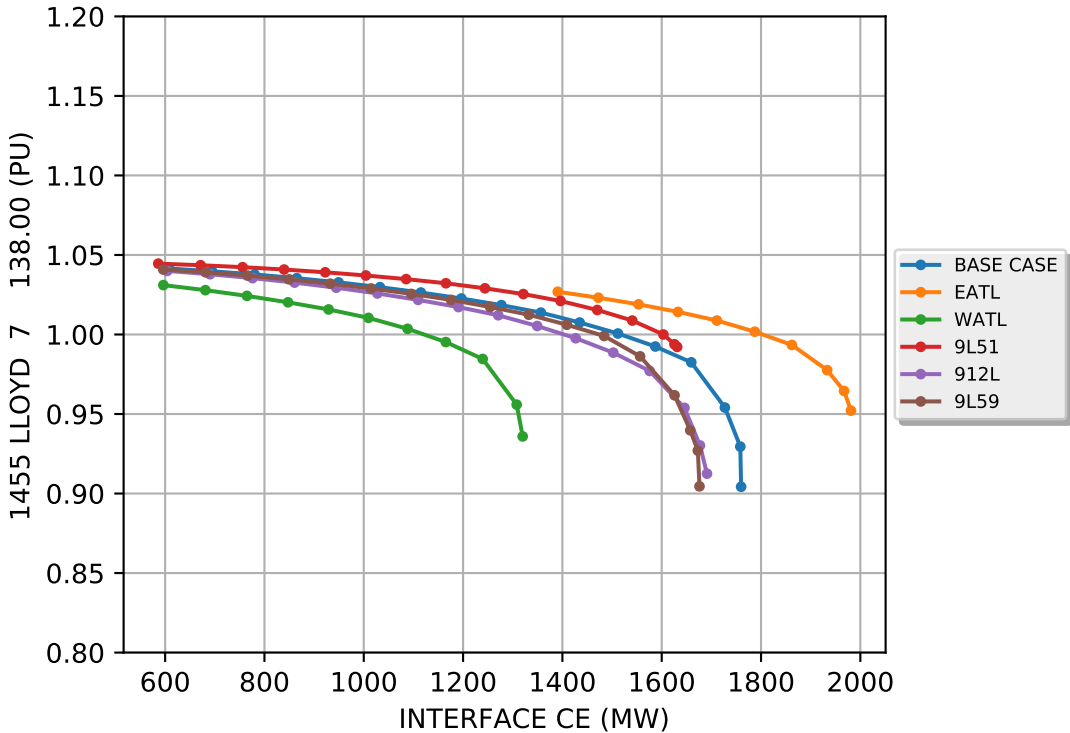


Figure: E-3-132

Case: M11, Option: BOTH2

Min Voltage: 0.83 PU, Min Margin: 32.4%

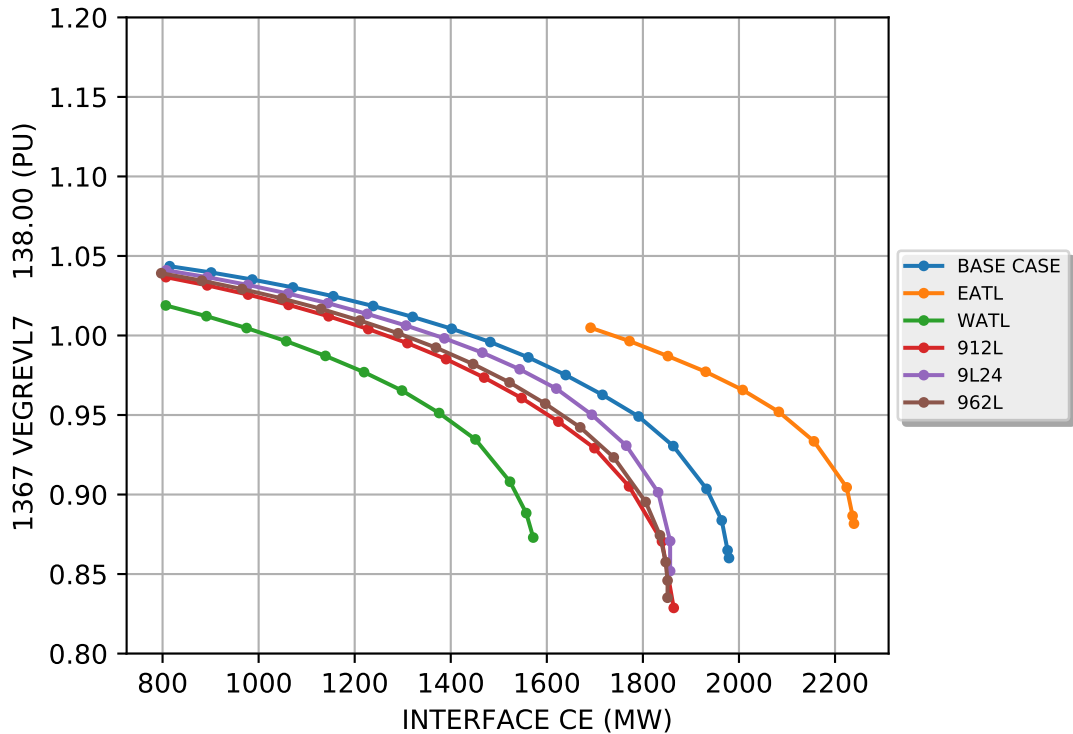


Figure: E-3-133

Case: M11, Option: BOTH2

Min Voltage: 0.84 PU, Min Margin: 32.4%

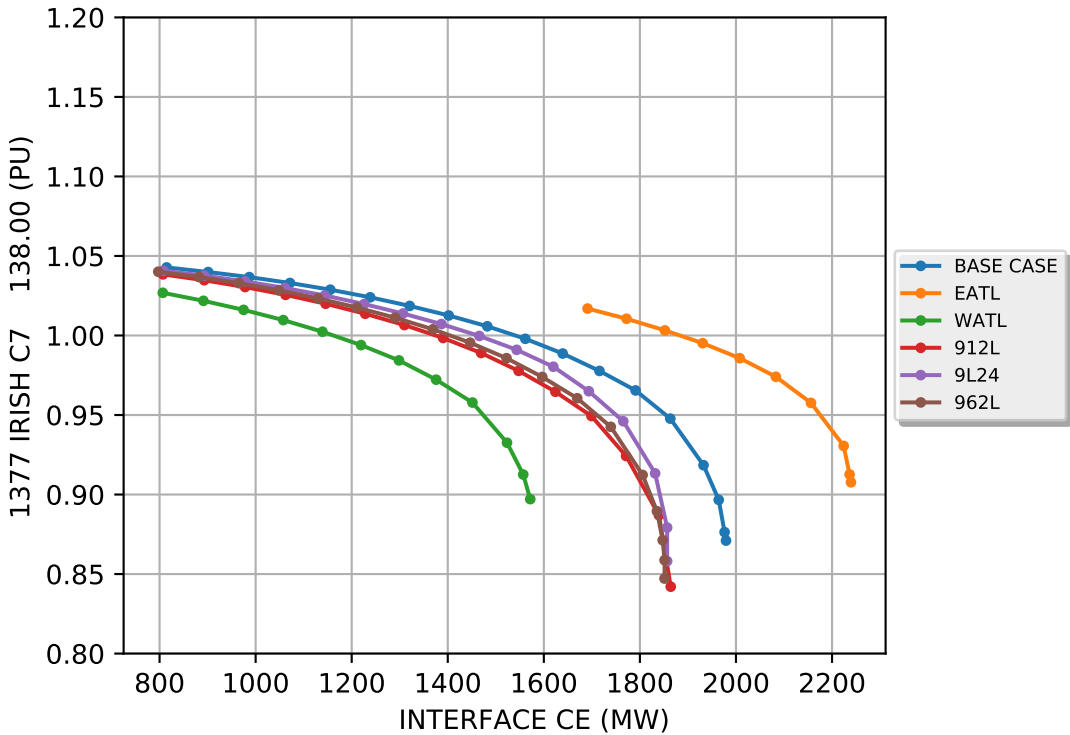


Figure: E-3-134

Case: M11, Option: BOTH2

Min Voltage: 0.85 PU, Min Margin: 32.4%

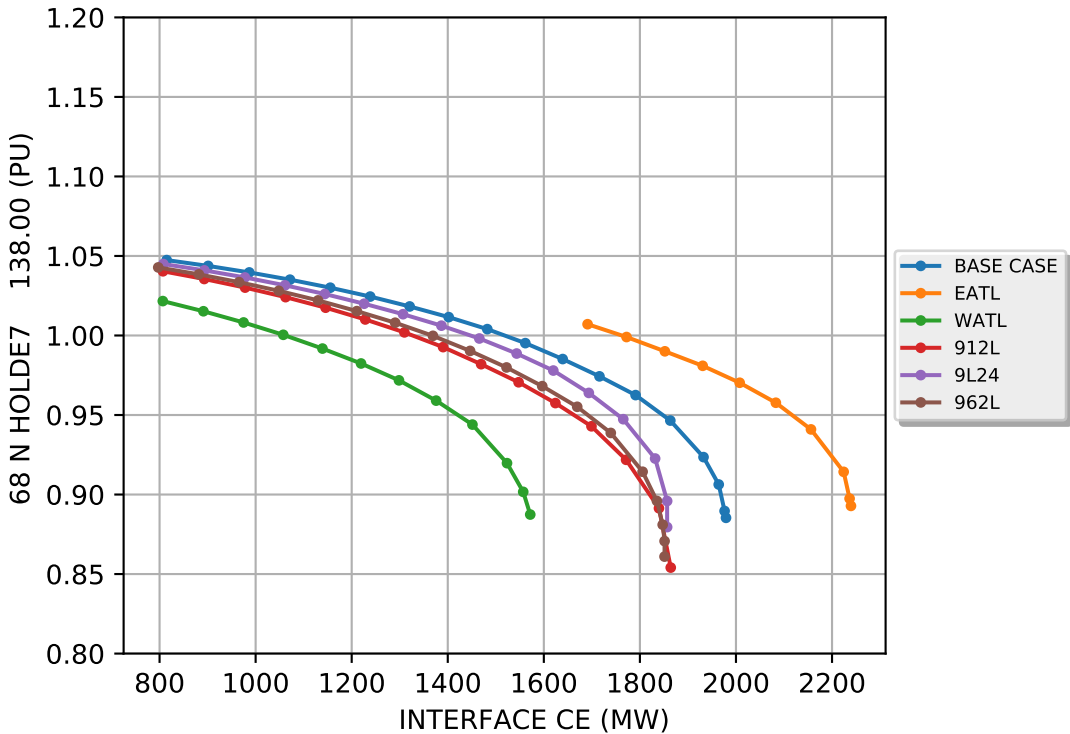


Figure: E-3-135

Case: M11, Option: BOTH2

Min Voltage: 0.88 PU, Min Margin: 32.4%

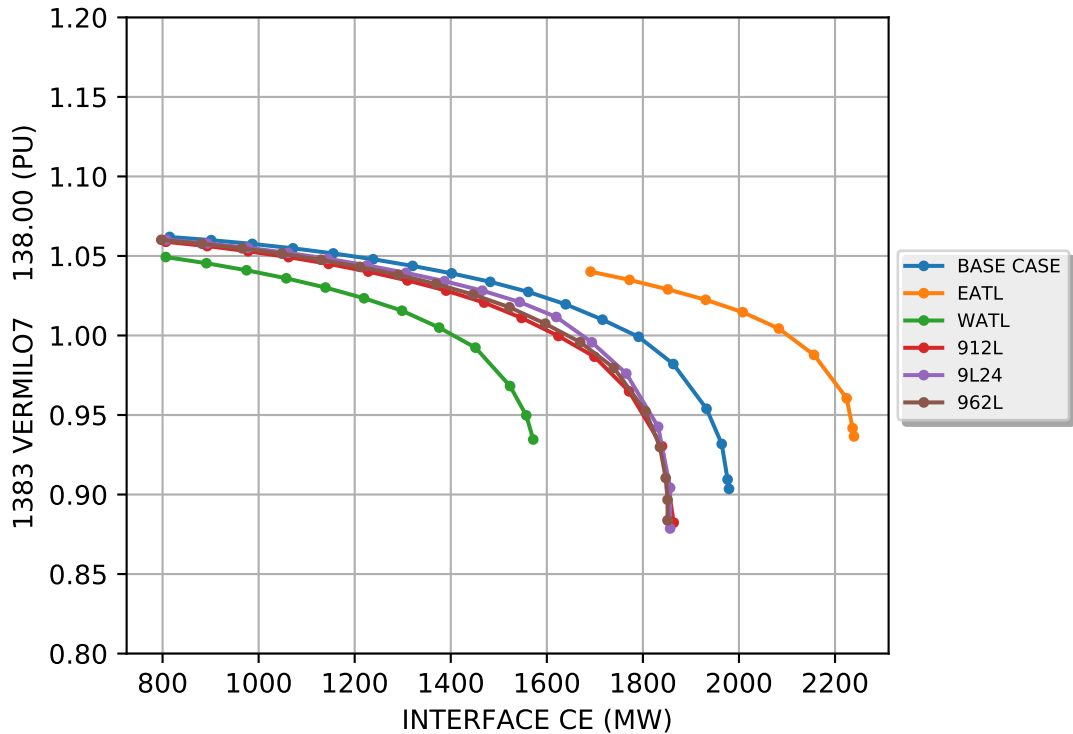


Figure: E-3-136

Case: M11, Option: BOTH2

Min Voltage: 0.84 PU, Min Margin: 32.4%

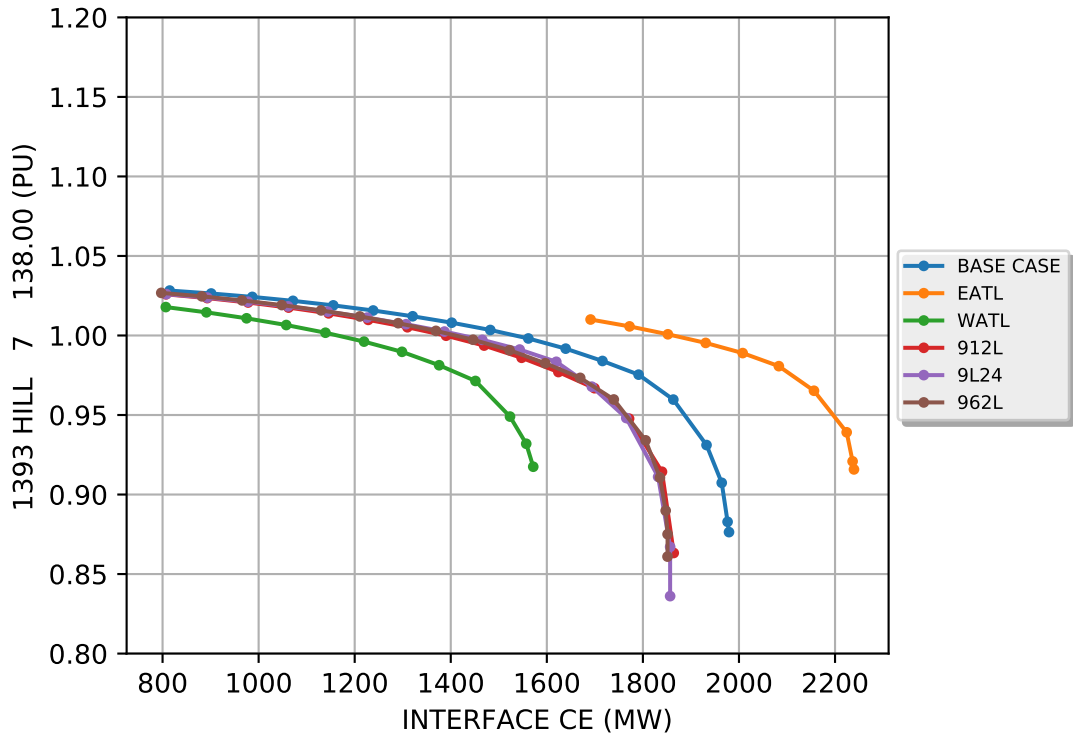


Figure: E-3-137

Case: M11, Option: BOTH2

Min Voltage: 0.84 PU, Min Margin: 32.4%

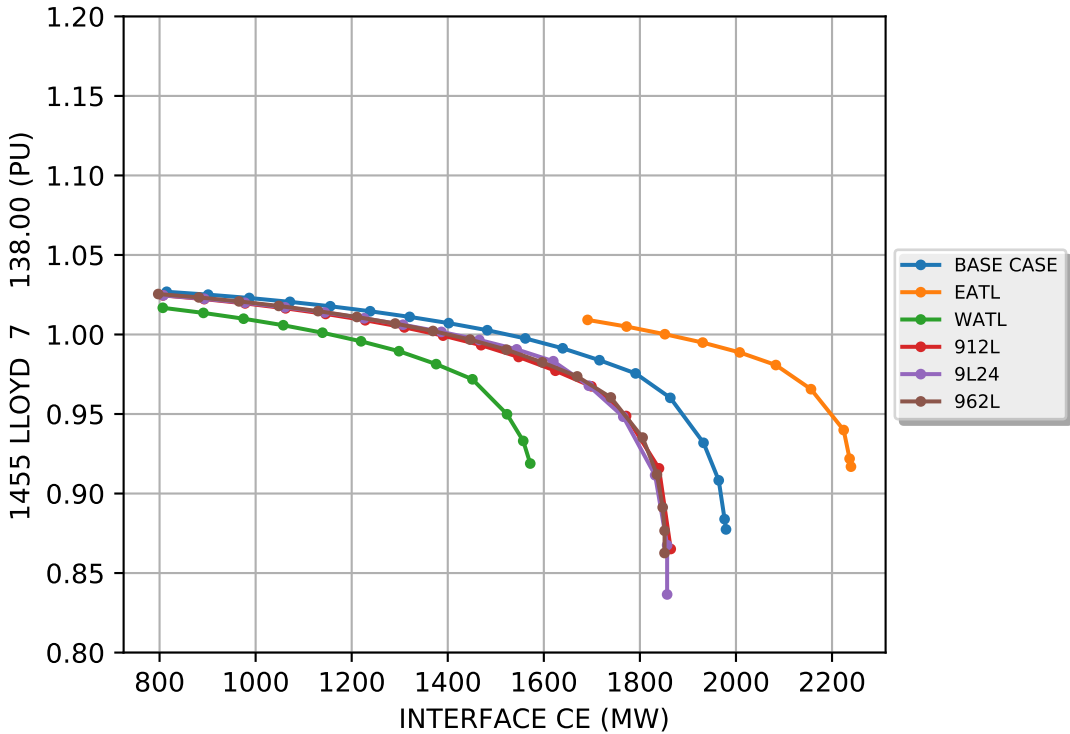


Figure: E-3-138

Case: H9, Option: BOTH2

Min Voltage: 0.93 PU, Min Margin: 22.1%

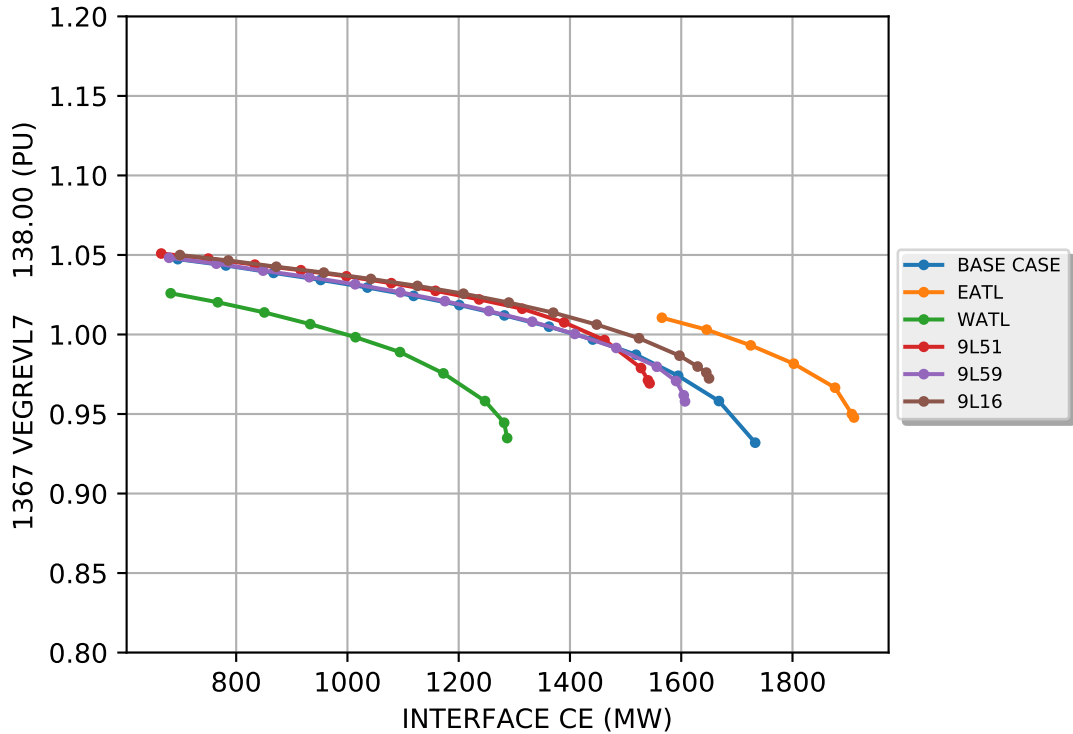


Figure: E-3-139

Case: H9, Option: BOTH2

Min Voltage: 0.94 PU, Min Margin: 22.1%

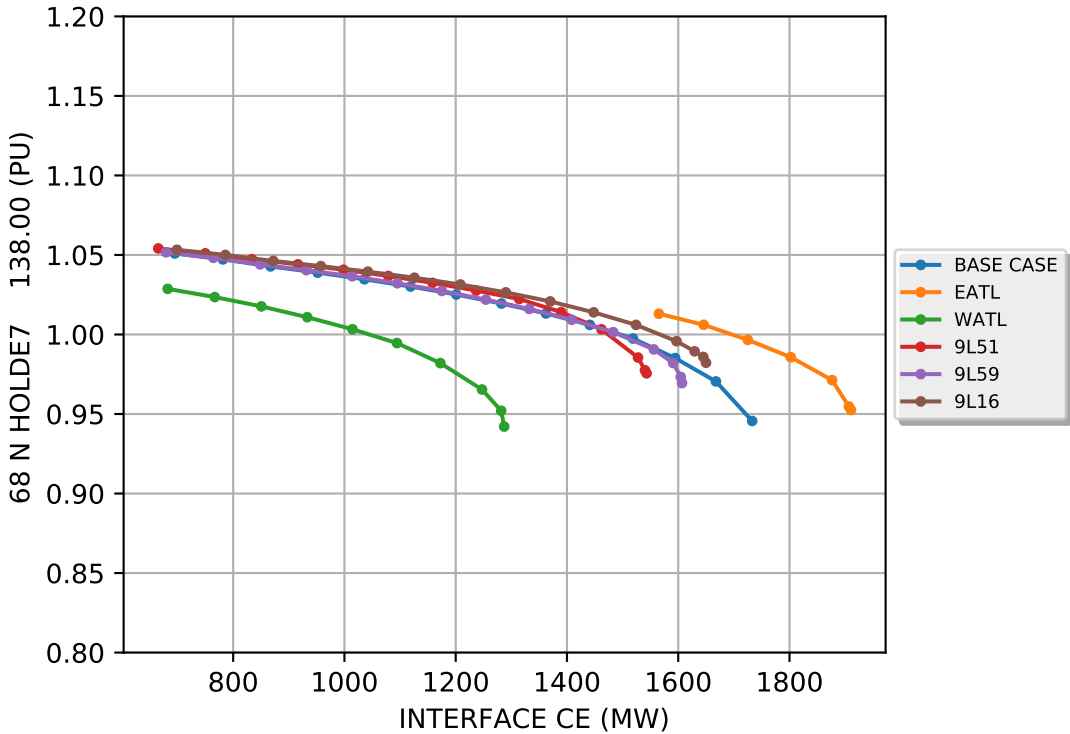


Figure: E-3-140

Case: H9, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 22.1%

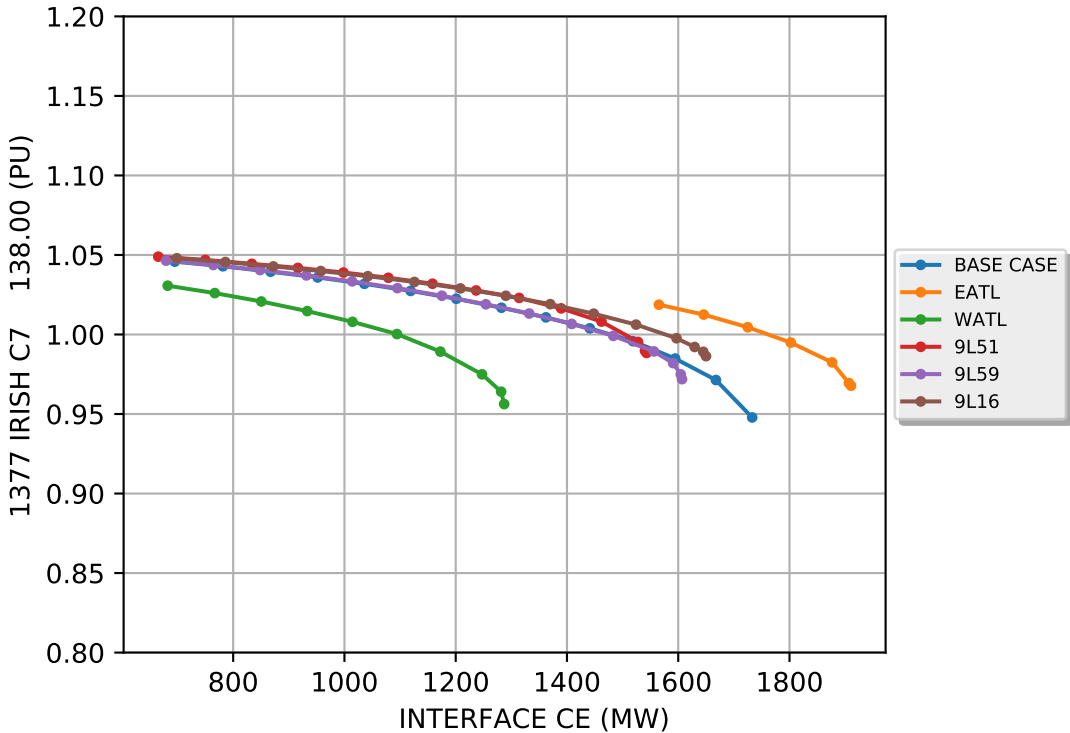


Figure: E-3-141

Case: H9, Option: BOTH2

Min Voltage: 0.94 PU, Min Margin: 22.1%

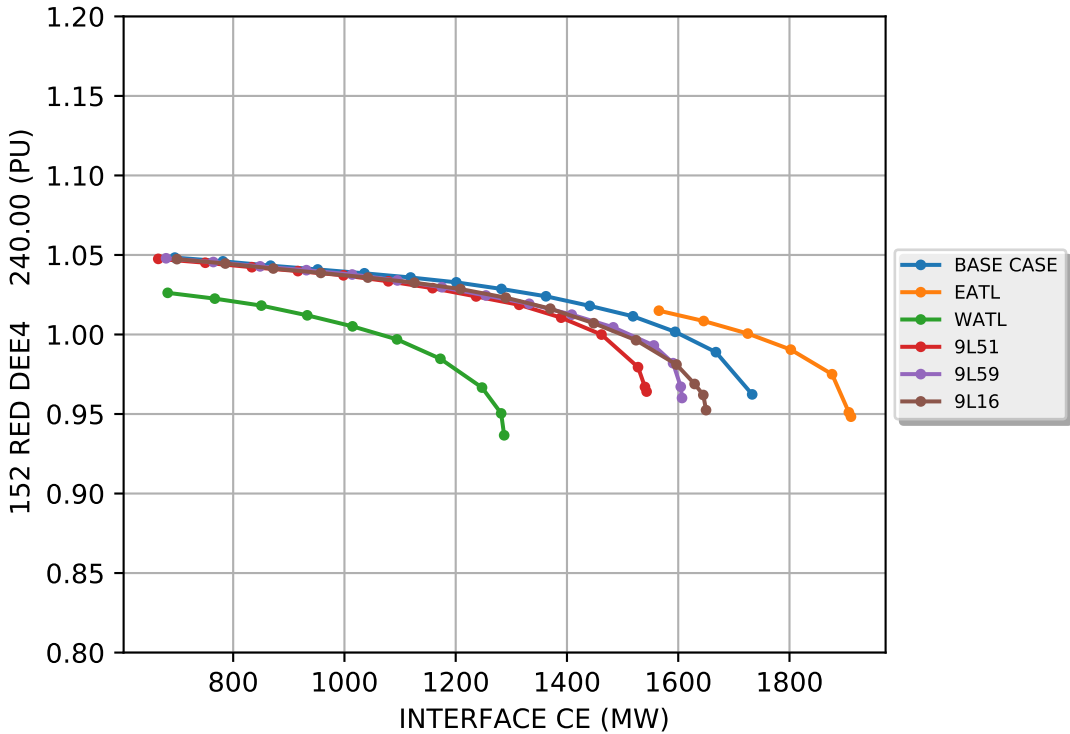


Figure: E-3-142

Case: H9, Option: BOTH2

Min Voltage: 0.92 PU, Min Margin: 22.1%

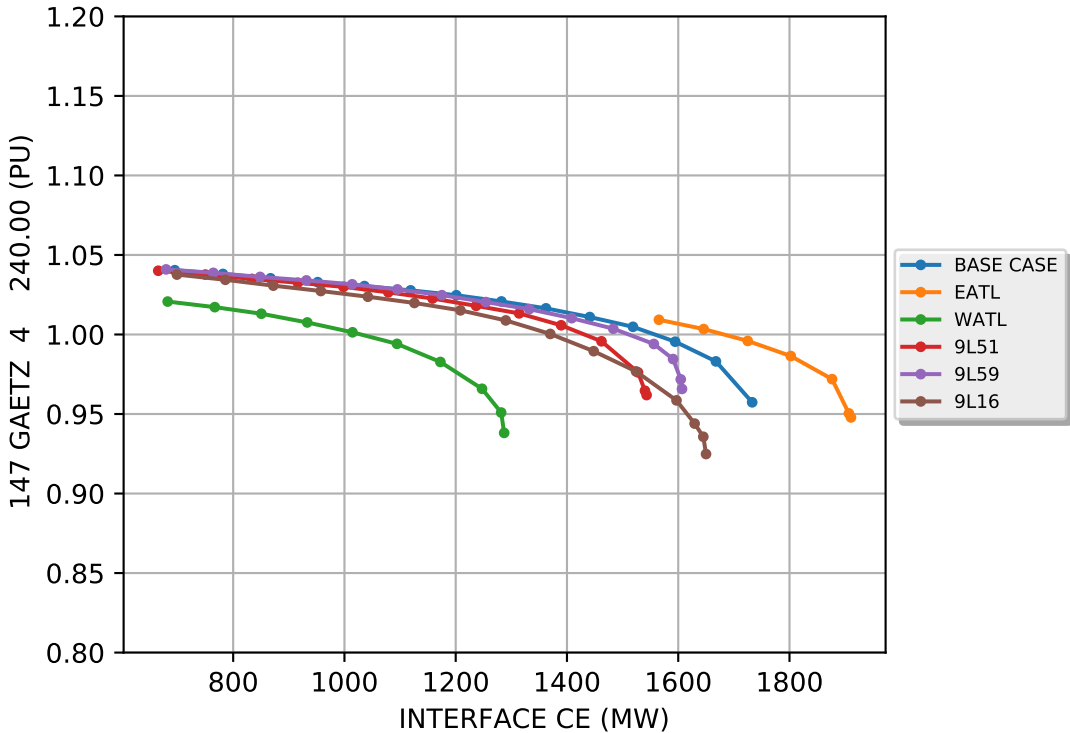


Figure: E-3-143

Case: H9, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 22.1%

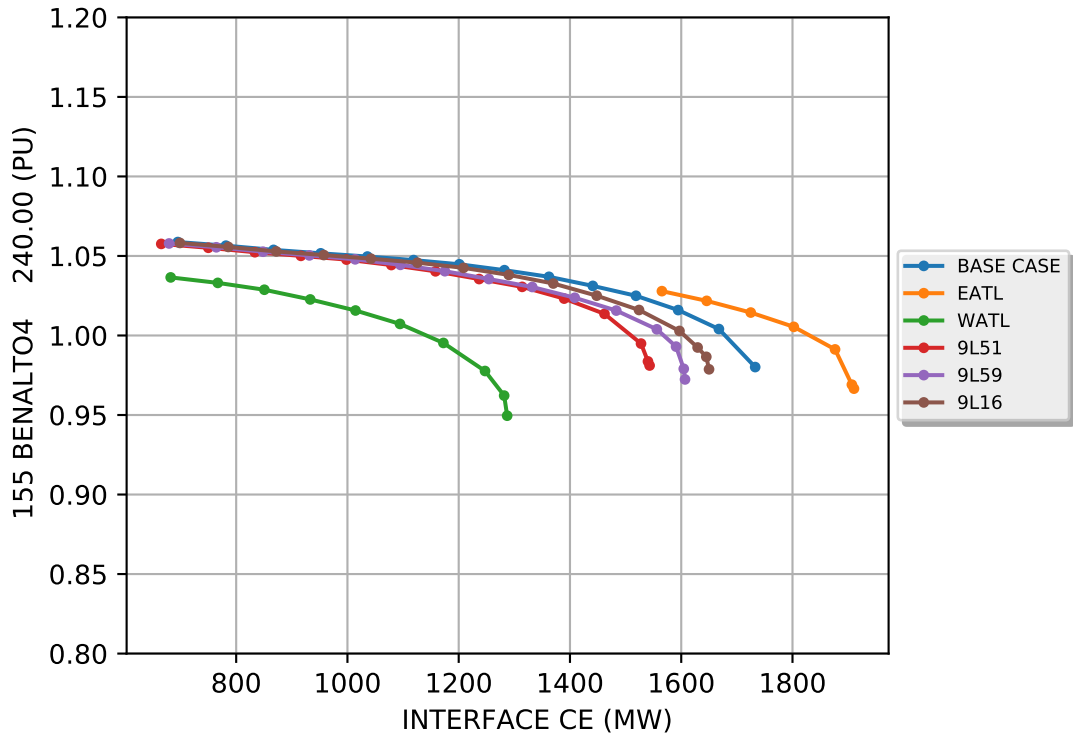


Figure: E-3-144

Case: H9, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 22.1%

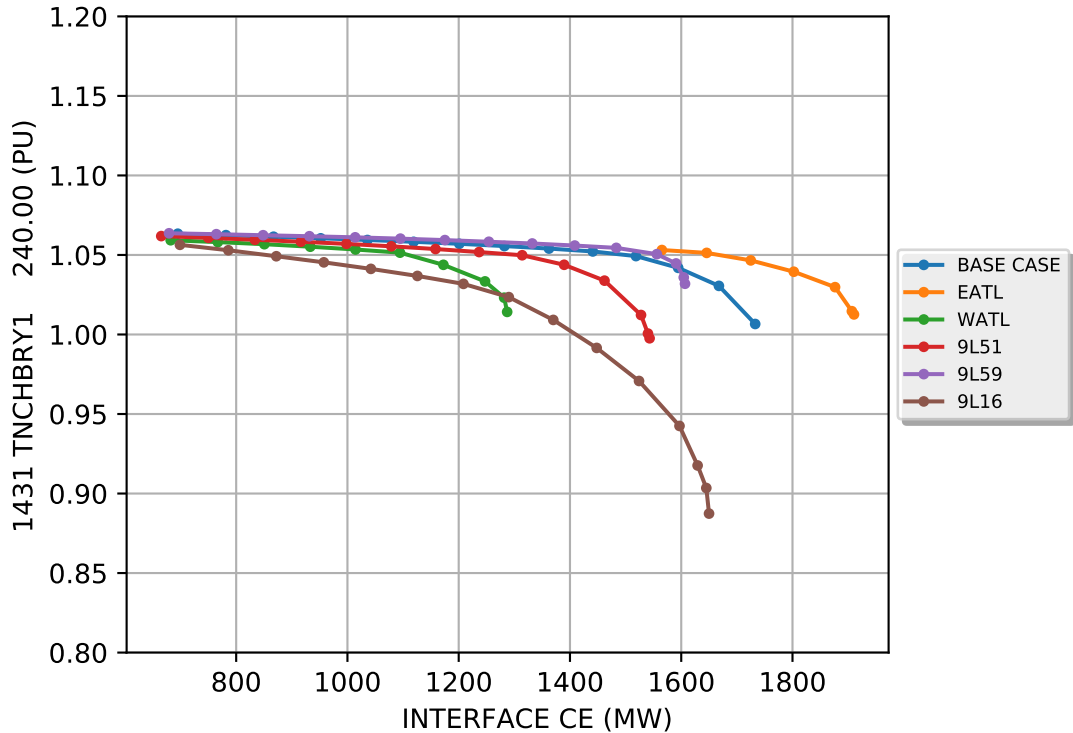


Figure: E-3-145

Case: H9, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 22.1%

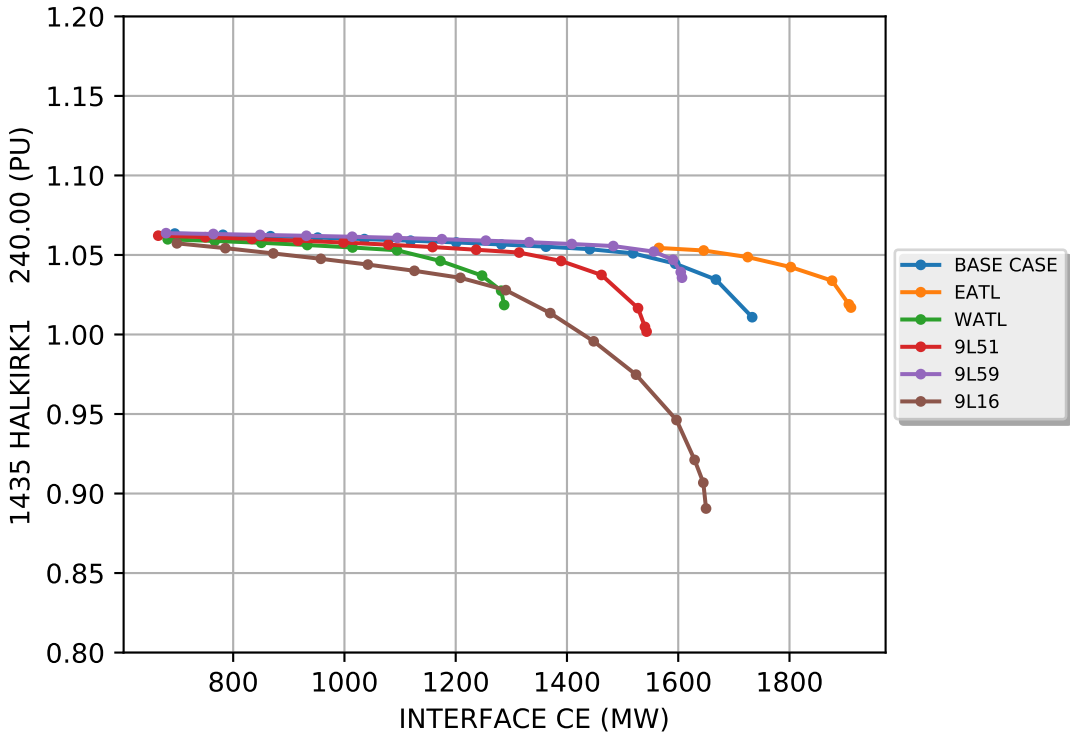


Figure: E-3-146

Case: H6, Option: BOTHC2

Min Voltage: 0.84 PU, Min Margin: 56.6%

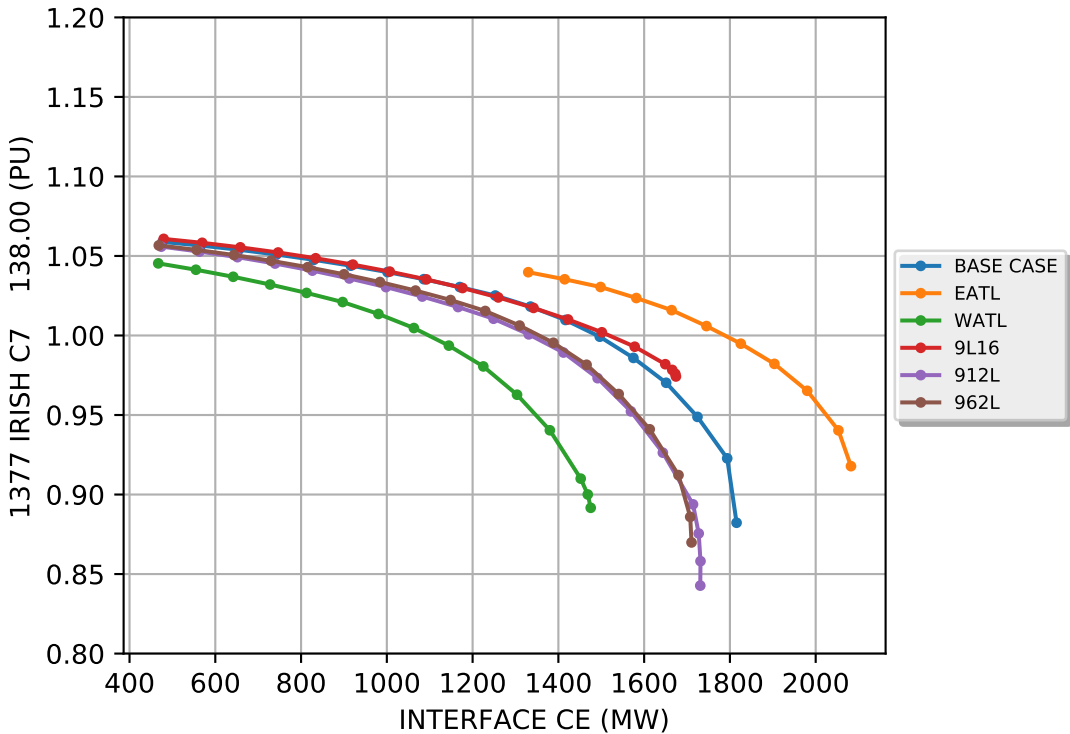


Figure: E-3-147

Case: H6, Option: BOTHC2

Min Voltage: 0.82 PU, Min Margin: 56.6%

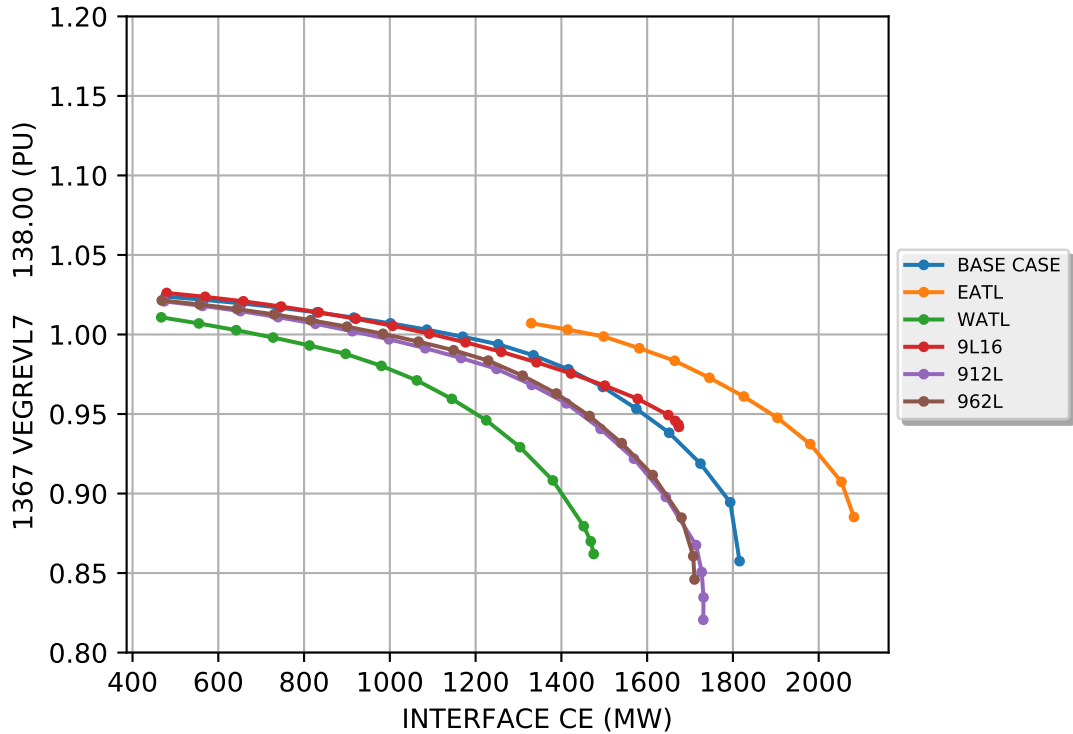


Figure: E-3-148

Case: H6, Option: BOTHC2

Min Voltage: 0.85 PU, Min Margin: 56.6%

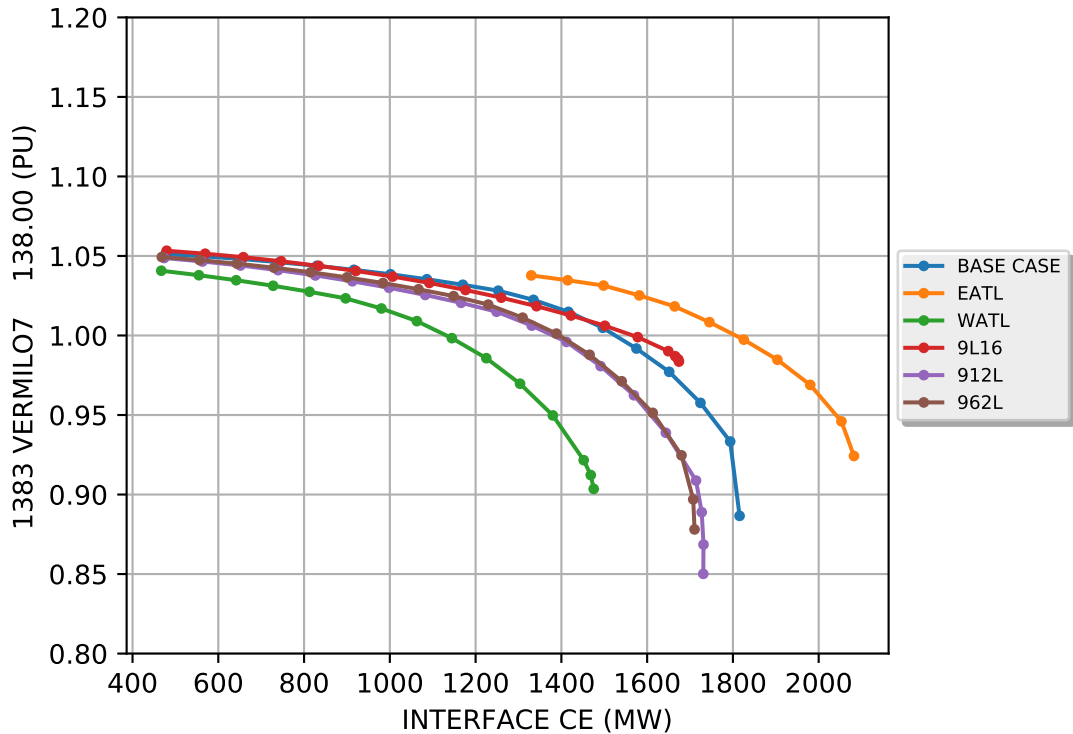


Figure: E-3-149

Case: H6, Option: BOTHC2

Min Voltage: 0.84 PU, Min Margin: 56.6%

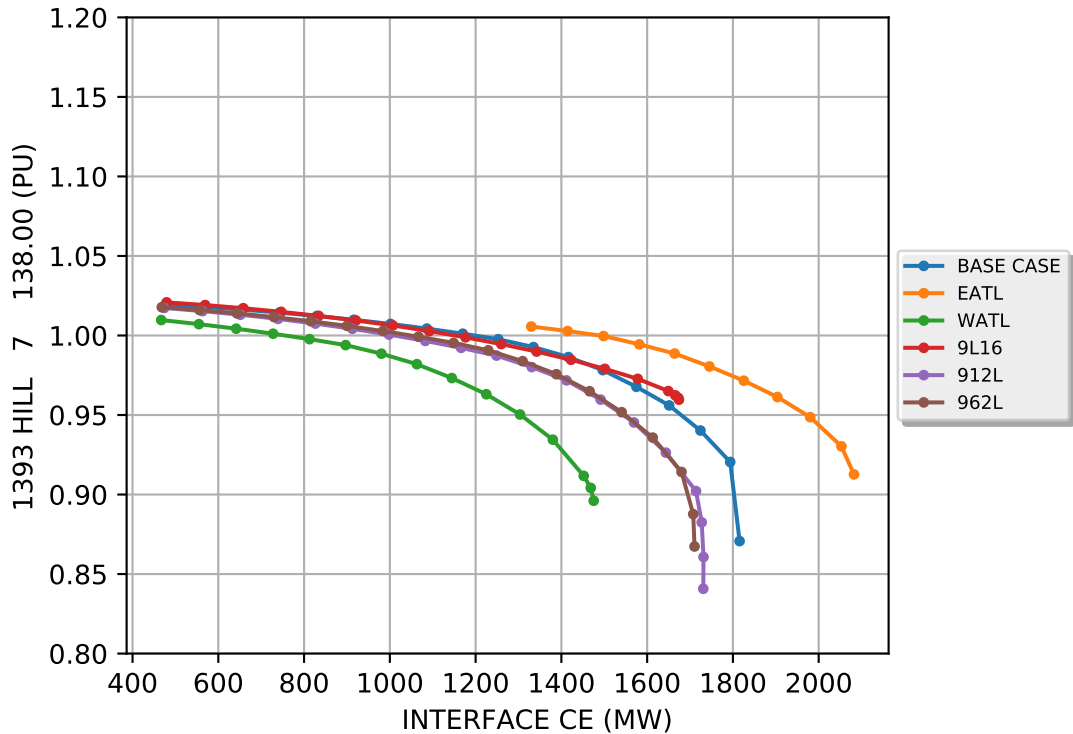


Figure: E-3-150

Case: H6, Option: BOTHC2

Min Voltage: 0.84 PU, Min Margin: 56.6%

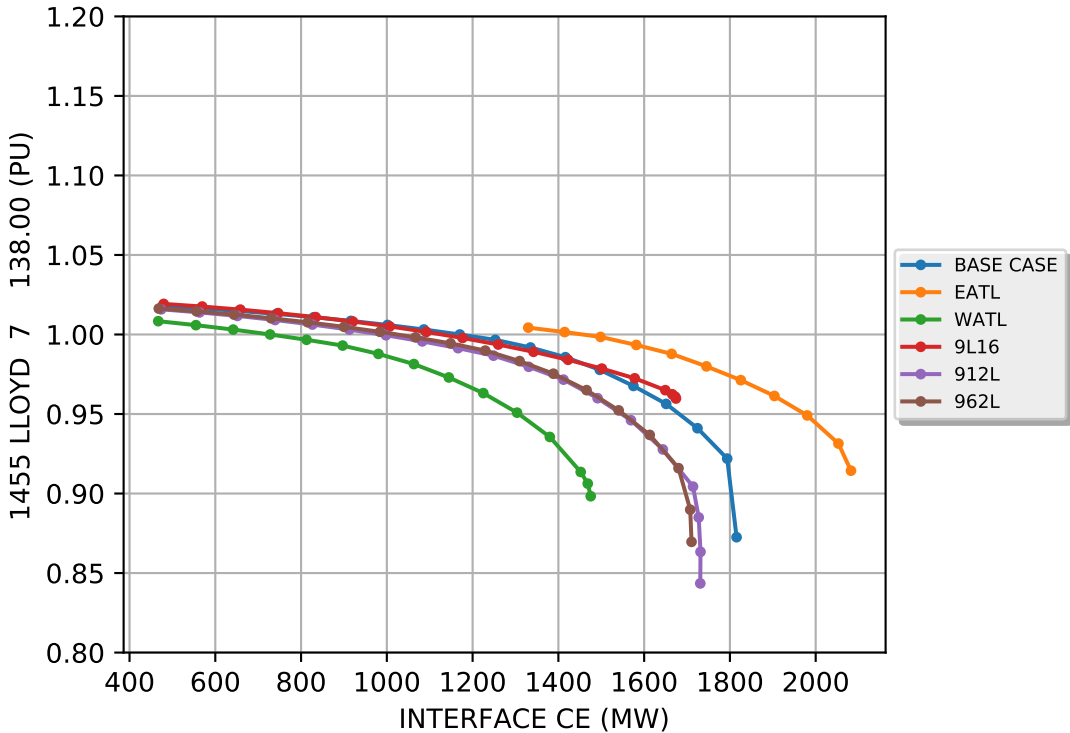


Figure: E-3-151

Case: H6, Option: BOTHC2

Min Voltage: 0.85 PU, Min Margin: 56.6%

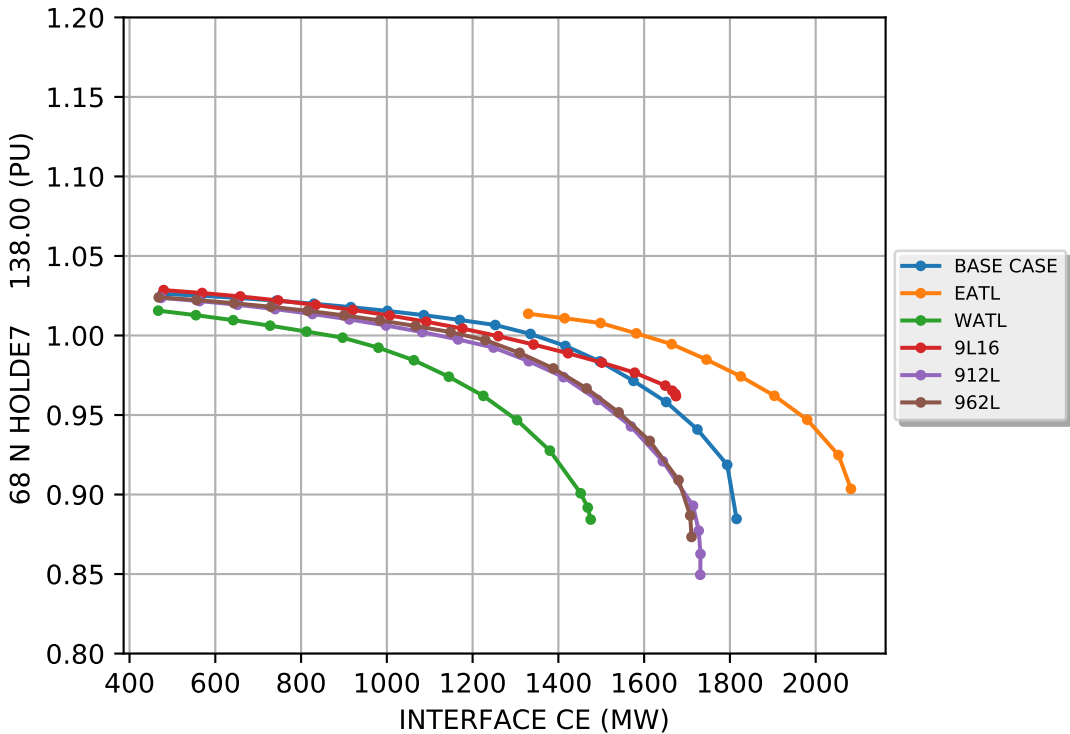


Figure: E-3-152

Case: H6, Option: BOTHC2

Min Voltage: 0.88 PU, Min Margin: 56.6%

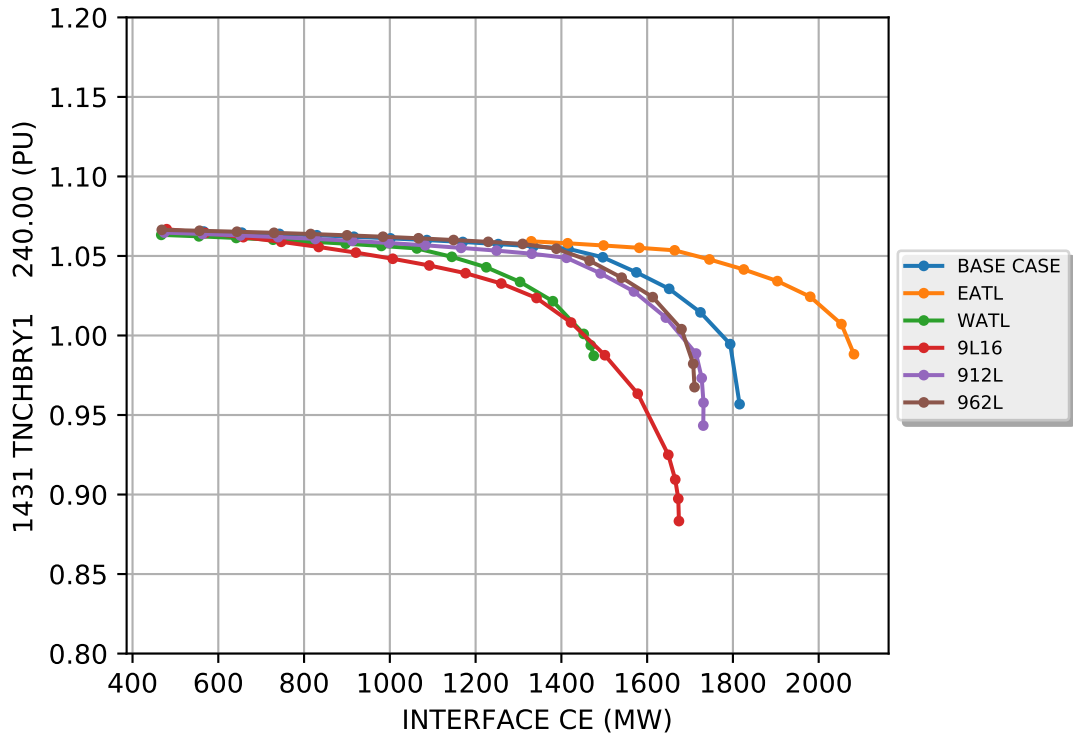


Figure: E-3-153

Case: H6, Option: BOTHC2

Min Voltage: 0.89 PU, Min Margin: 56.6%

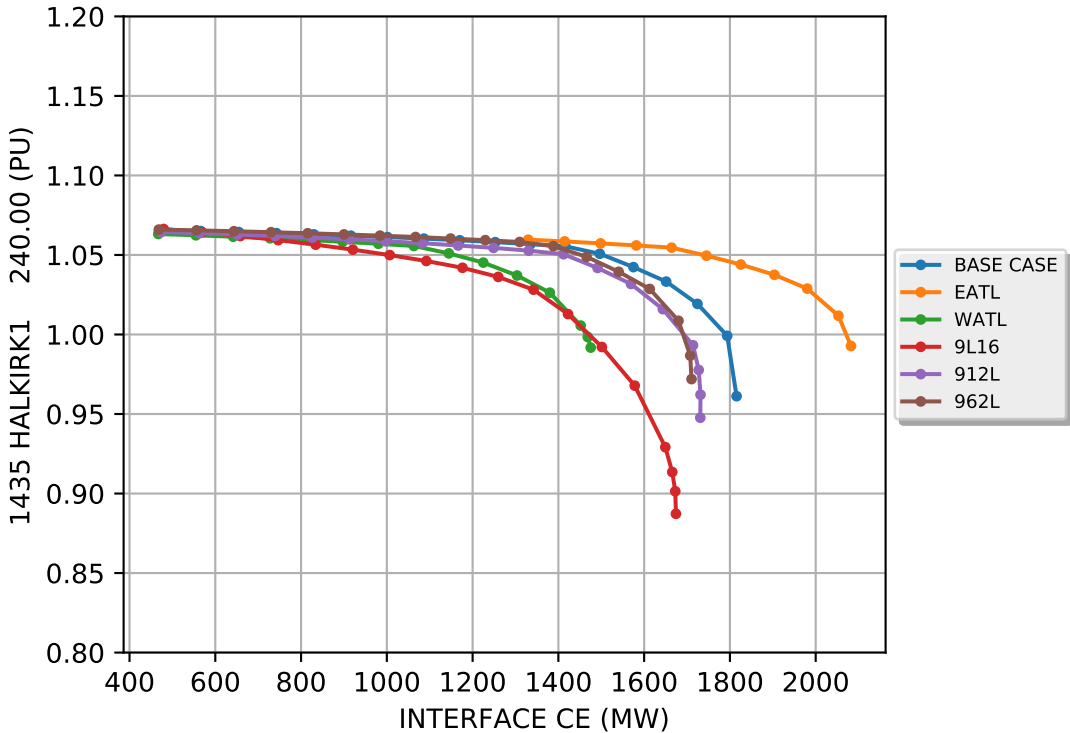


Figure: E-3-154

Case: H6, Option: BOTHC2

Min Voltage: 0.94 PU, Min Margin: 56.6%

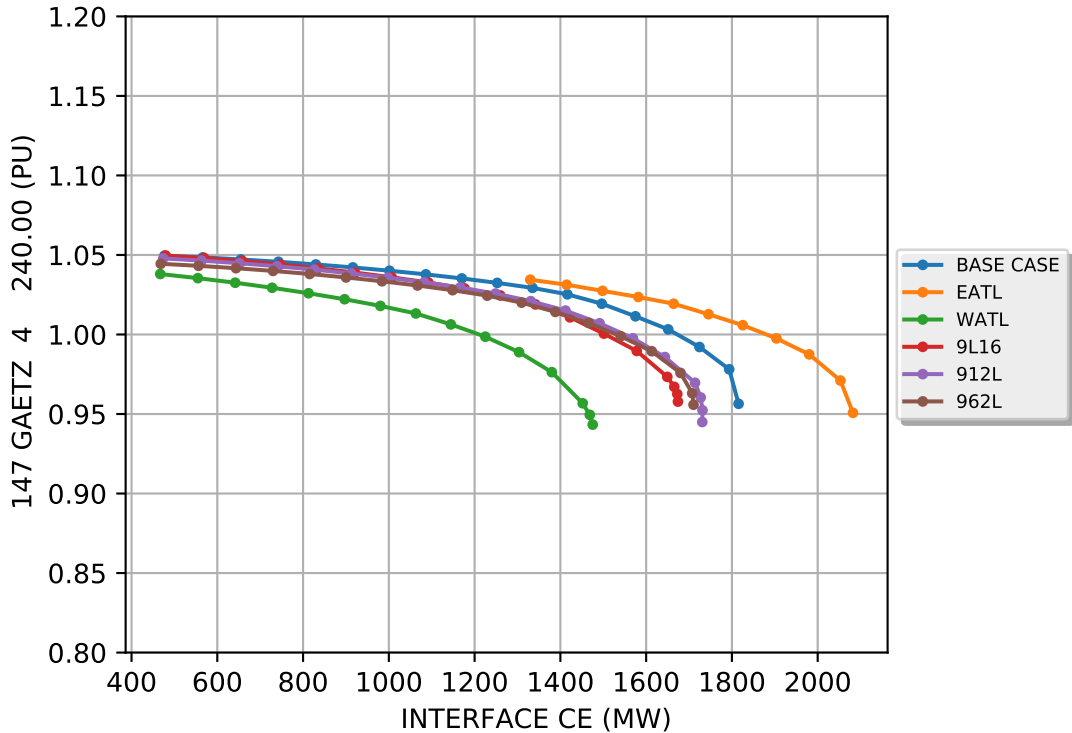


Figure: E-3-155

Case: H5, Option: BOTHC2

Min Voltage: 0.84 PU, Min Margin: 19.2%

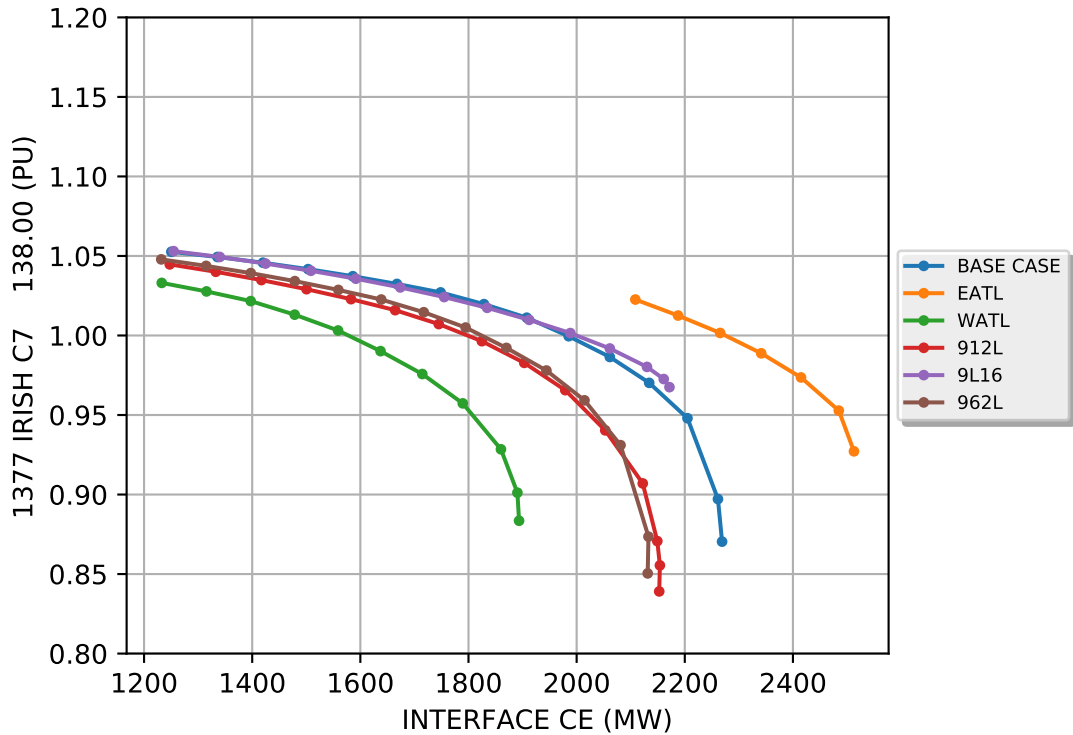


Figure: E-3-156

Case: H5, Option: BOTHC2

Min Voltage: 0.84 PU, Min Margin: 19.2%

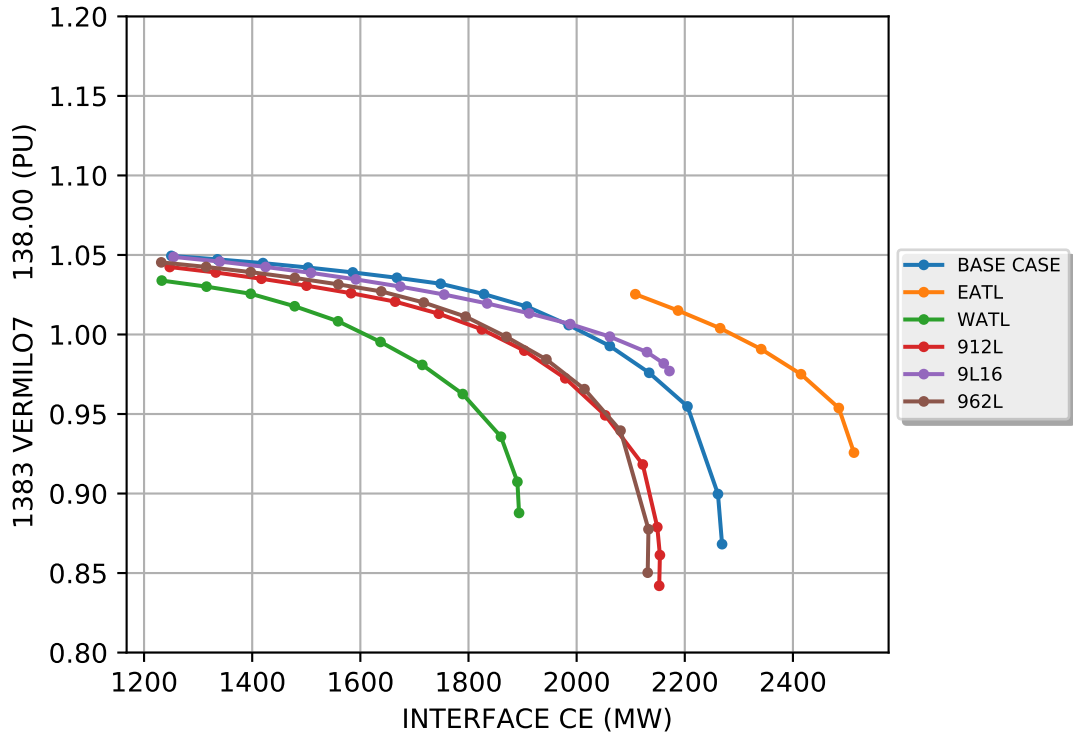


Figure: E-3-157

Case: H5, Option: BOTHC2

Min Voltage: 0.81 PU, Min Margin: 19.2%

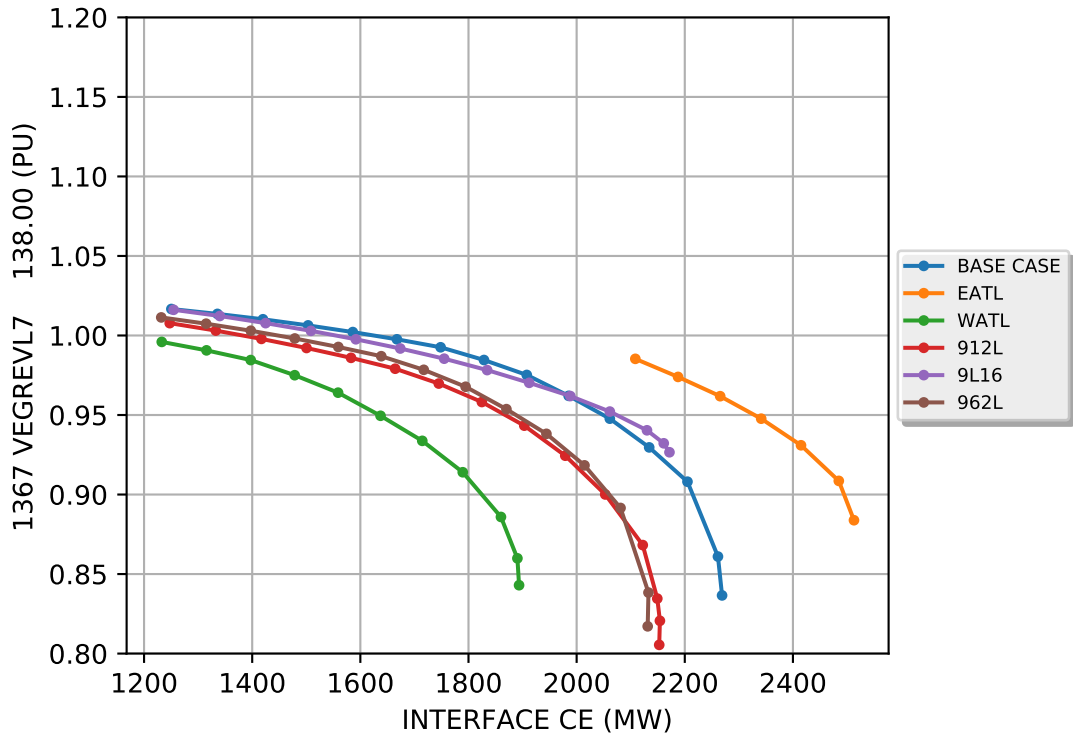


Figure: E-3-158

Case: H5, Option: BOTHC2

Min Voltage: 0.85 PU, Min Margin: 19.2%

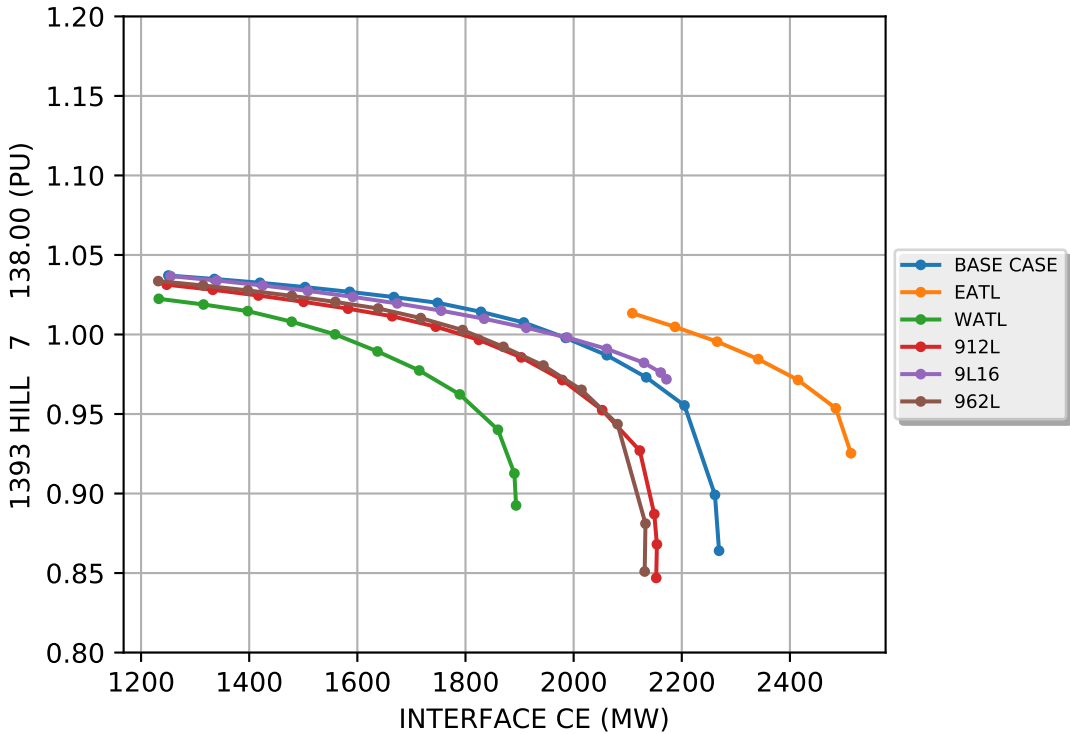


Figure: E-3-159

Case: H5, Option: BOTHC2

Min Voltage: 0.85 PU, Min Margin: 19.2%

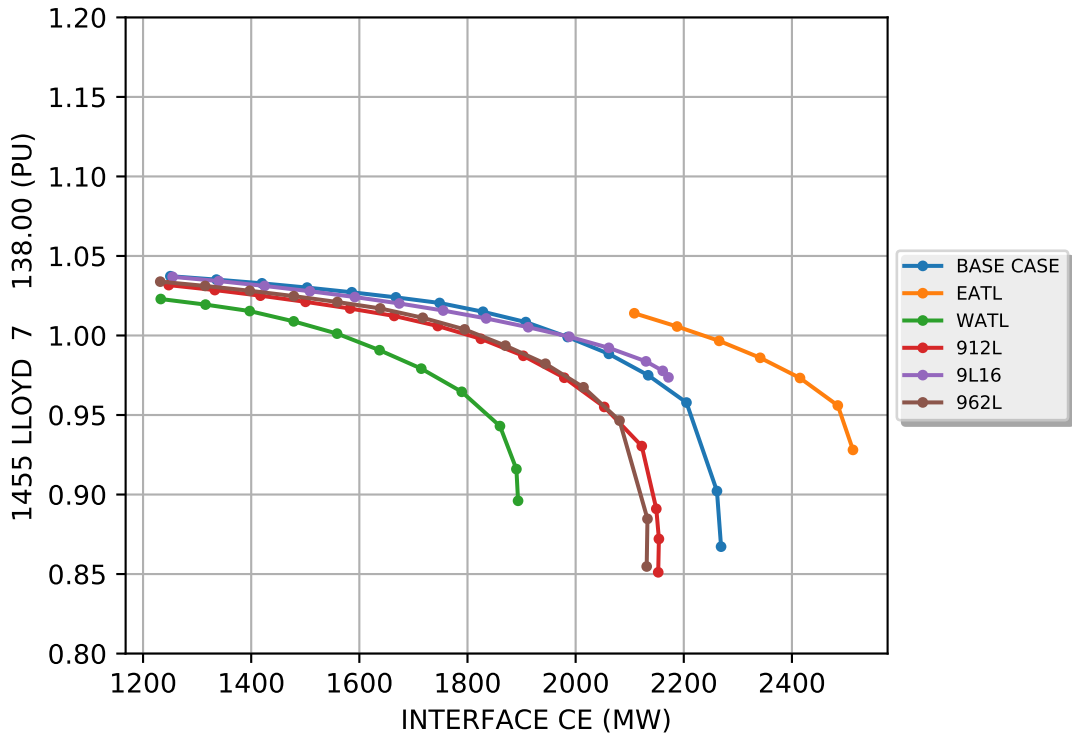


Figure: E-3-160

Case: H5, Option: BOTHC2

Min Voltage: 0.83 PU, Min Margin: 19.2%

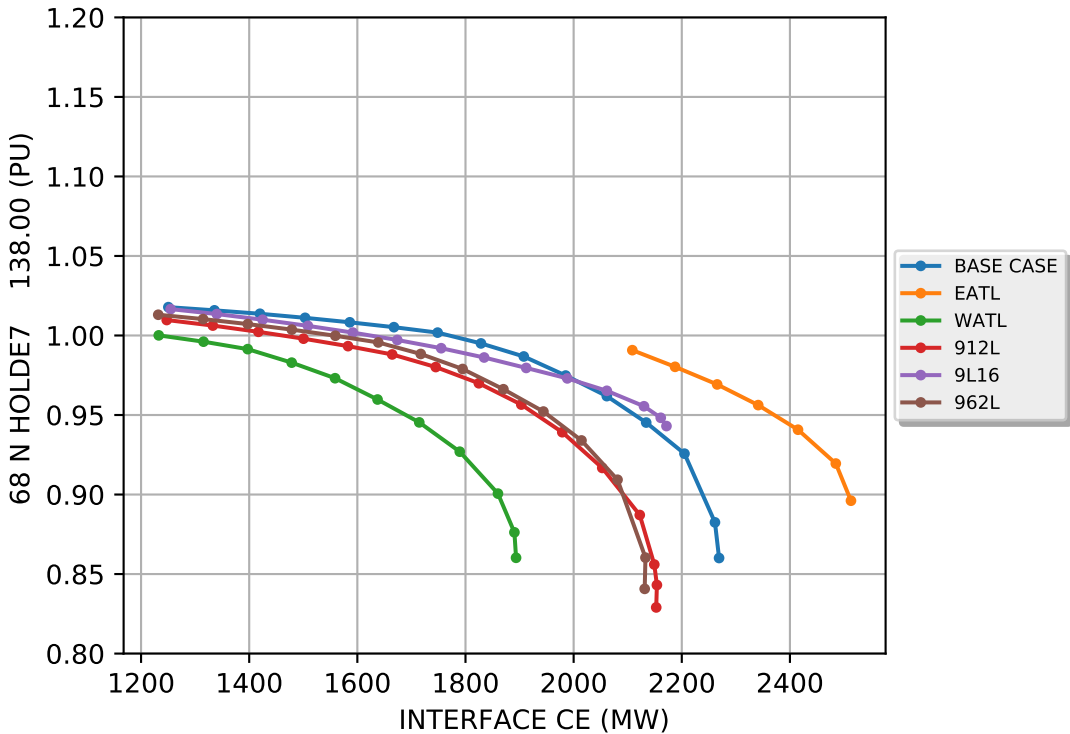


Figure: E-3-161

Case: H5, Option: BOTHC2

Min Voltage: 0.85 PU, Min Margin: 19.2%

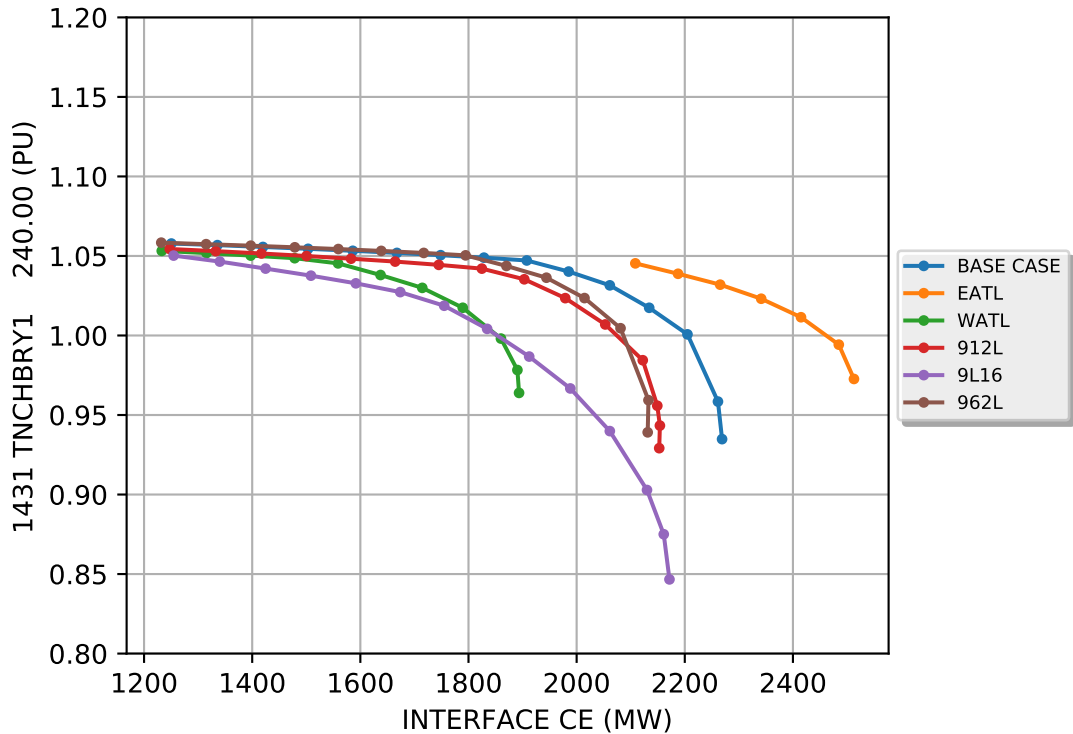


Figure: E-3-162

Case: H5, Option: BOTHC2

Min Voltage: 0.85 PU, Min Margin: 19.2%

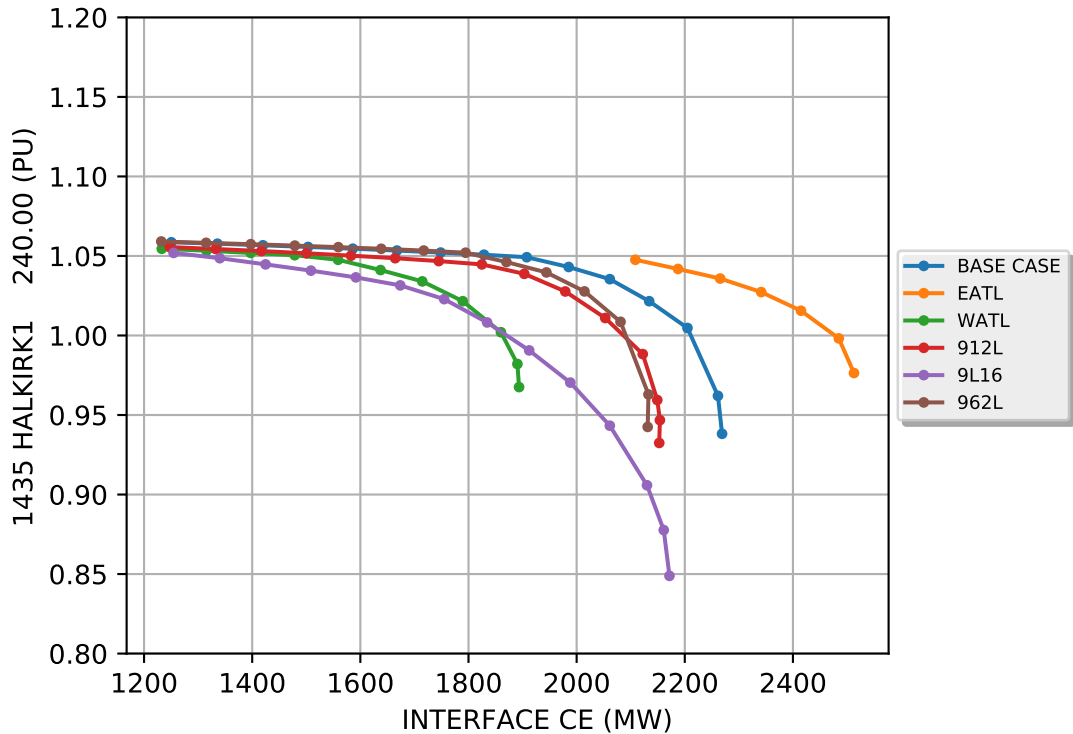


Figure: E-3-163

Case: H5, Option: BOTHC2

Min Voltage: 0.93 PU, Min Margin: 19.2%

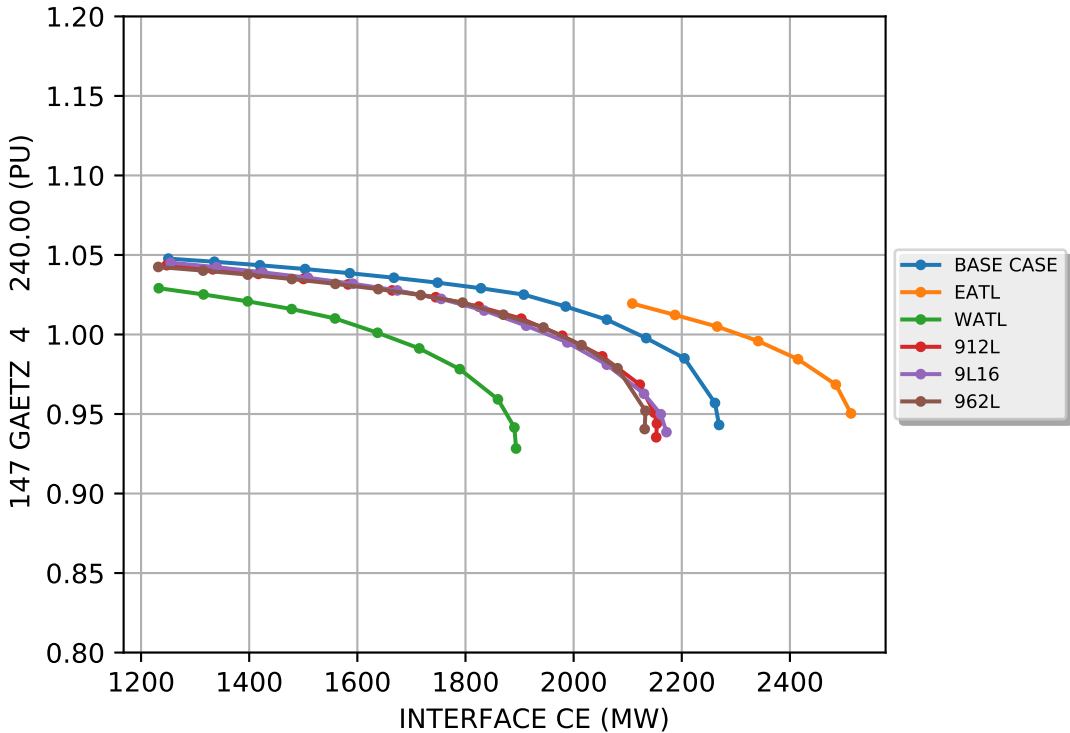


Figure: E-3-164

Case: H10, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 22.3%

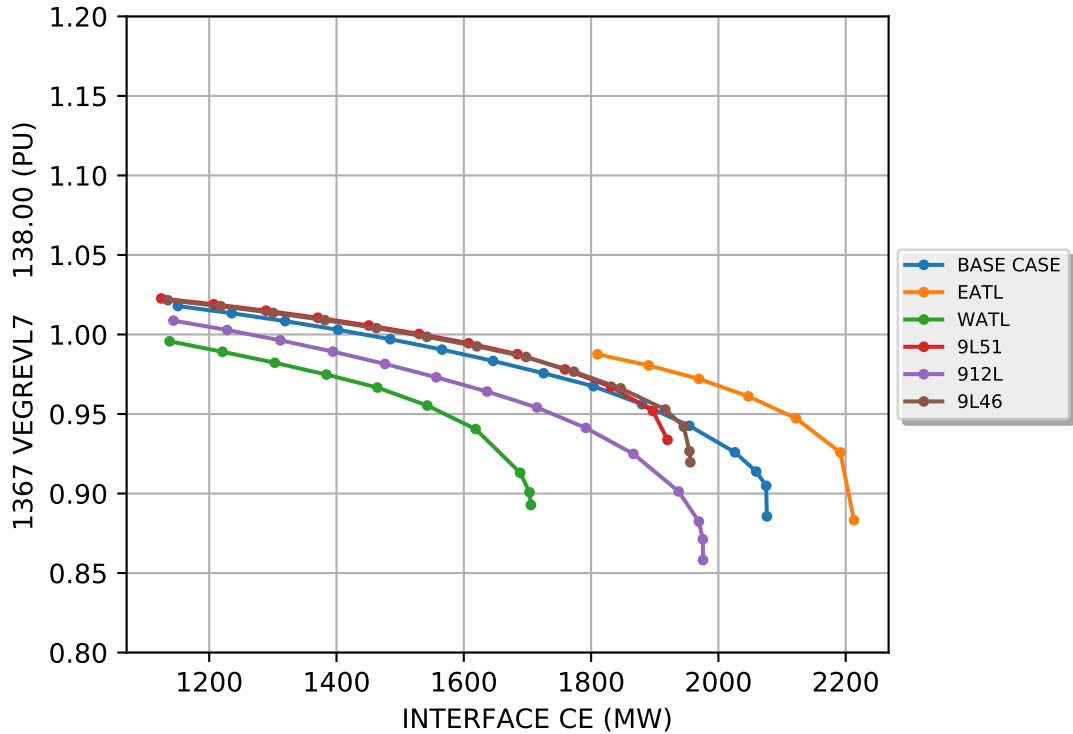


Figure: E-3-165

Case: H10, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 22.3%

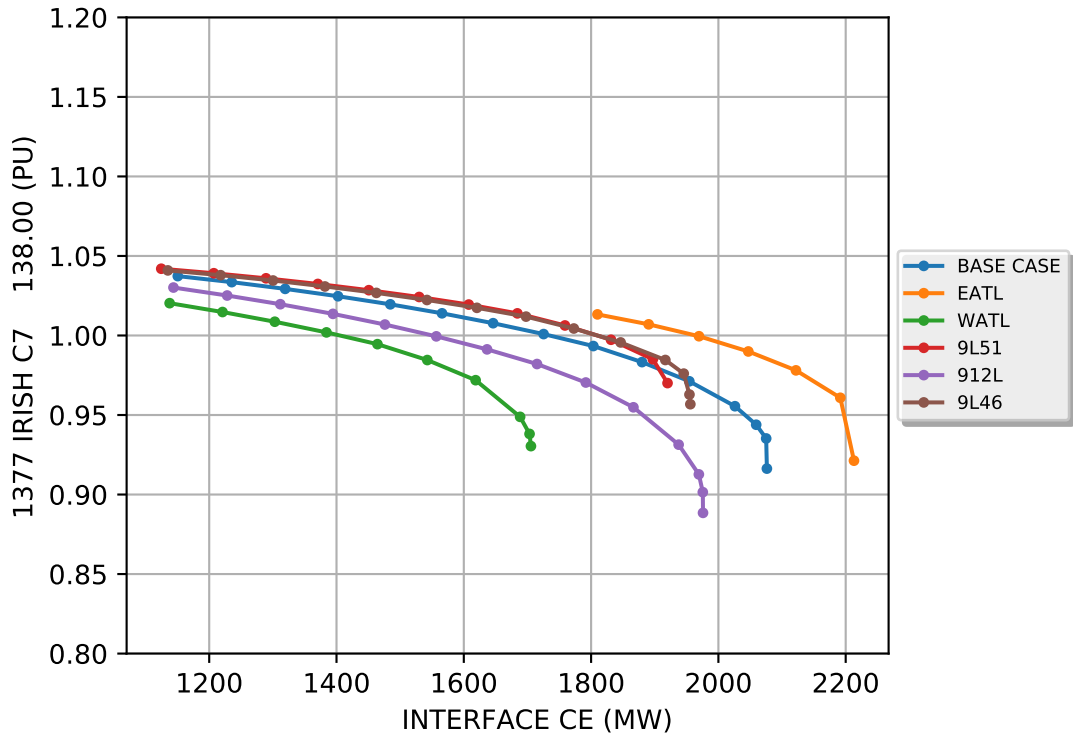


Figure: E-3-166

Case: H10, Option: BOTH2

Min Voltage: 0.87 PU, Min Margin: 22.3%

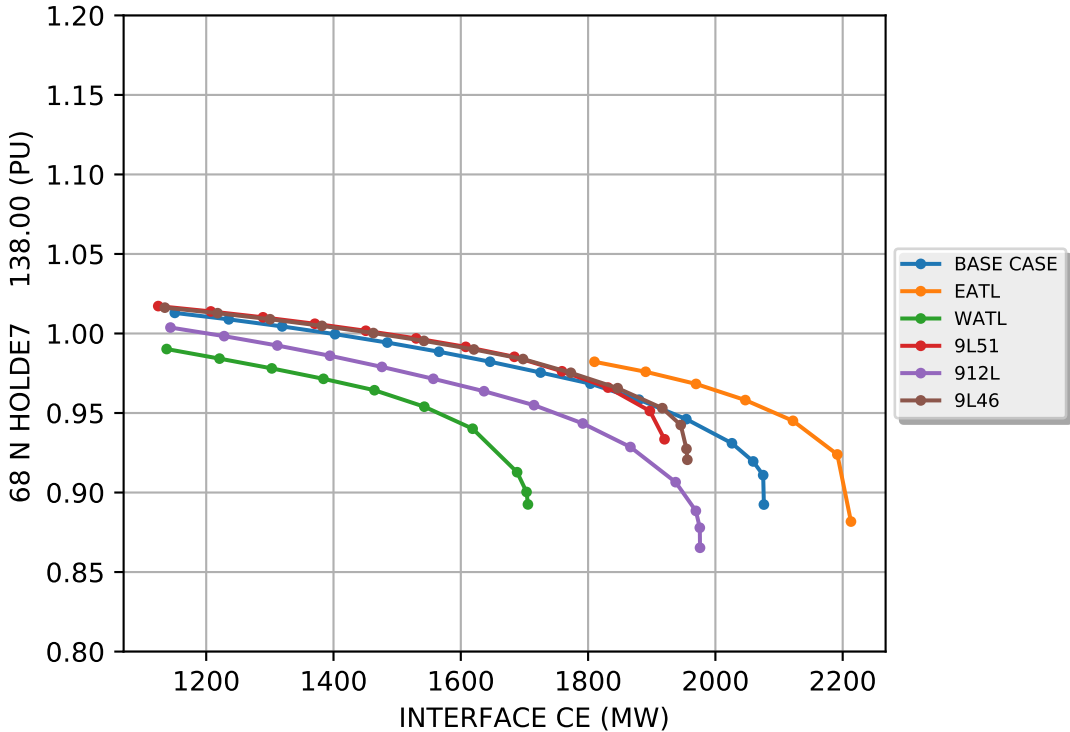


Figure: E-3-167

Case: H10, Option: BOTH2

Min Voltage: 0.93 PU, Min Margin: 22.3%

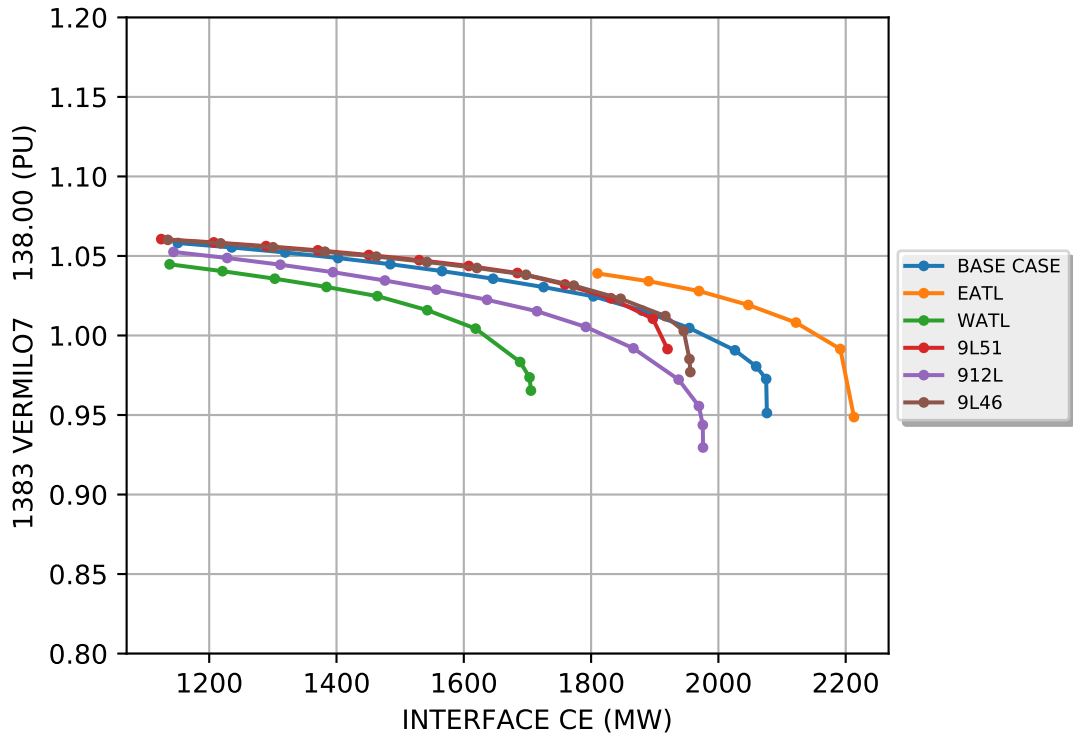


Figure: E-3-168

Case: H10, Option: BOTH2

Min Voltage: 0.94 PU, Min Margin: 22.3%

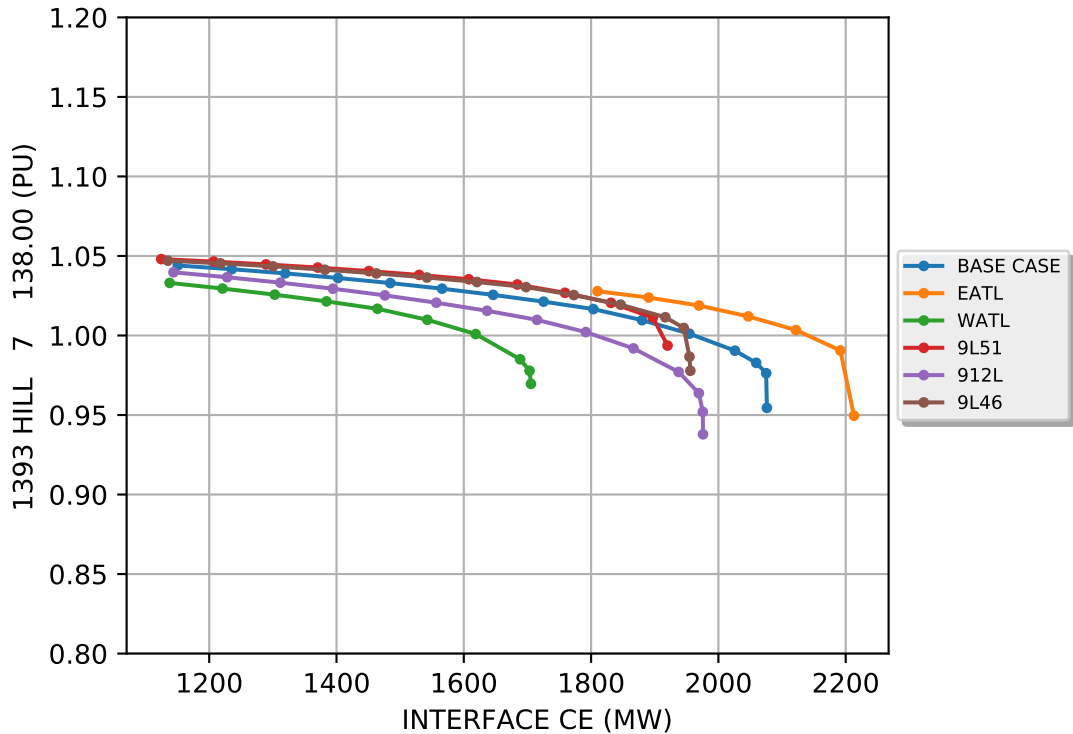


Figure: E-3-169

Case: H10, Option: BOTH2

Min Voltage: 0.94 PU, Min Margin: 22.3%

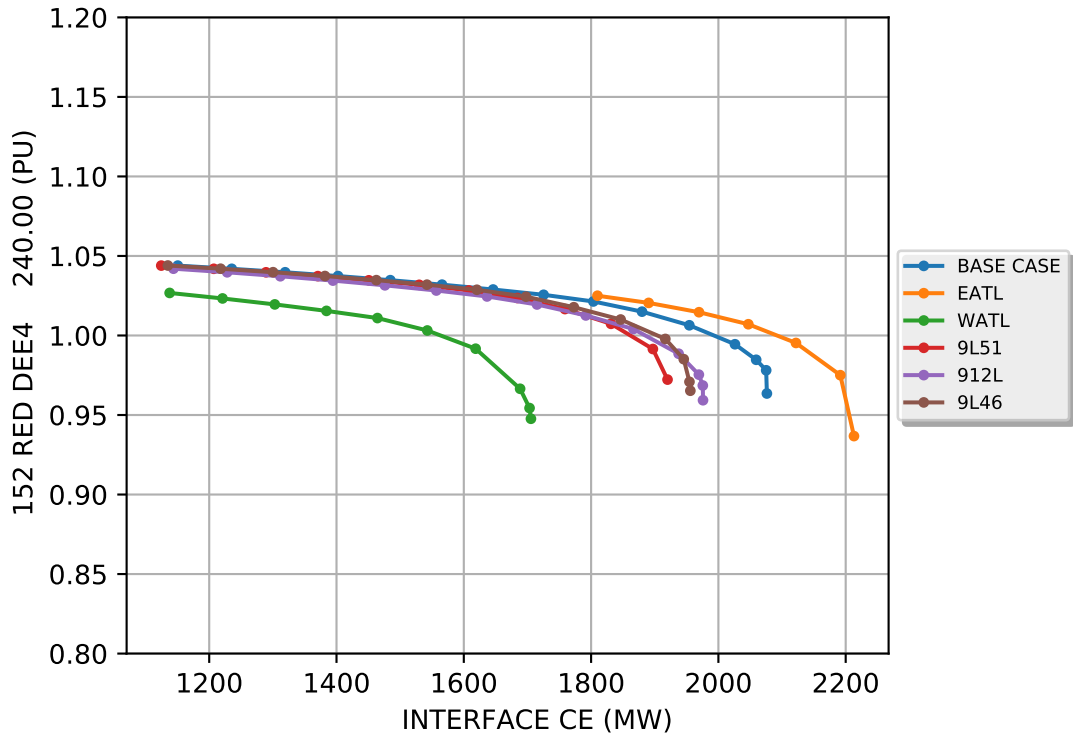


Figure: E-3-170

Case: H10, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 22.3%

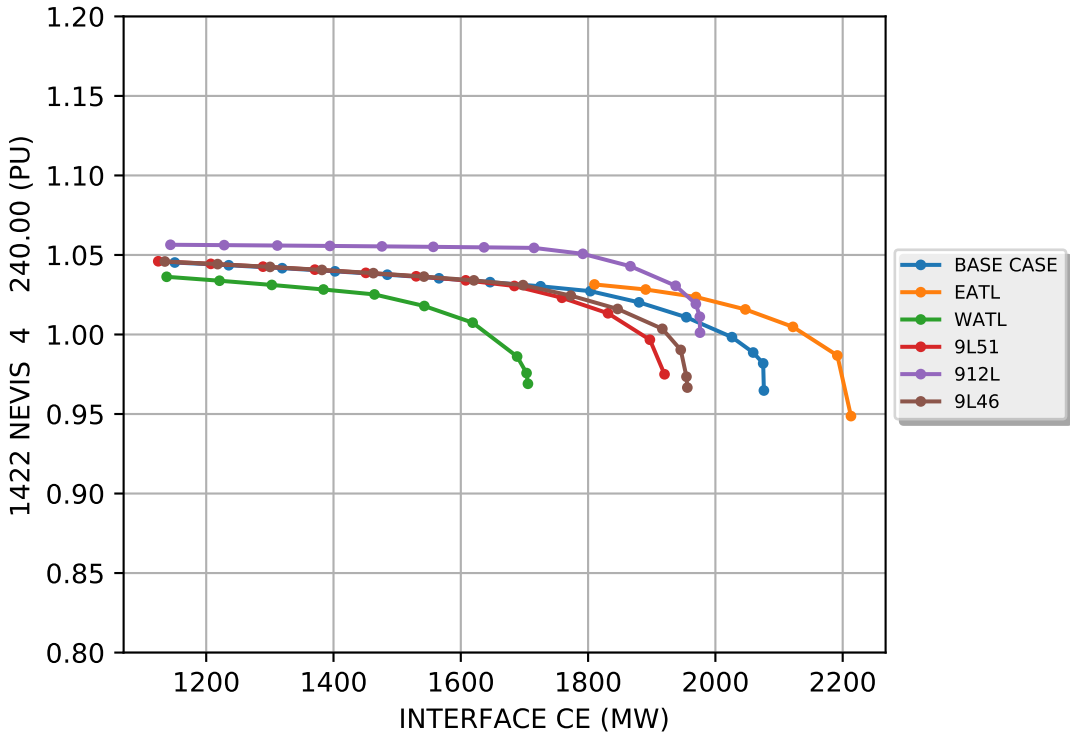


Figure: E-3-171

Case: H11, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 19.0%

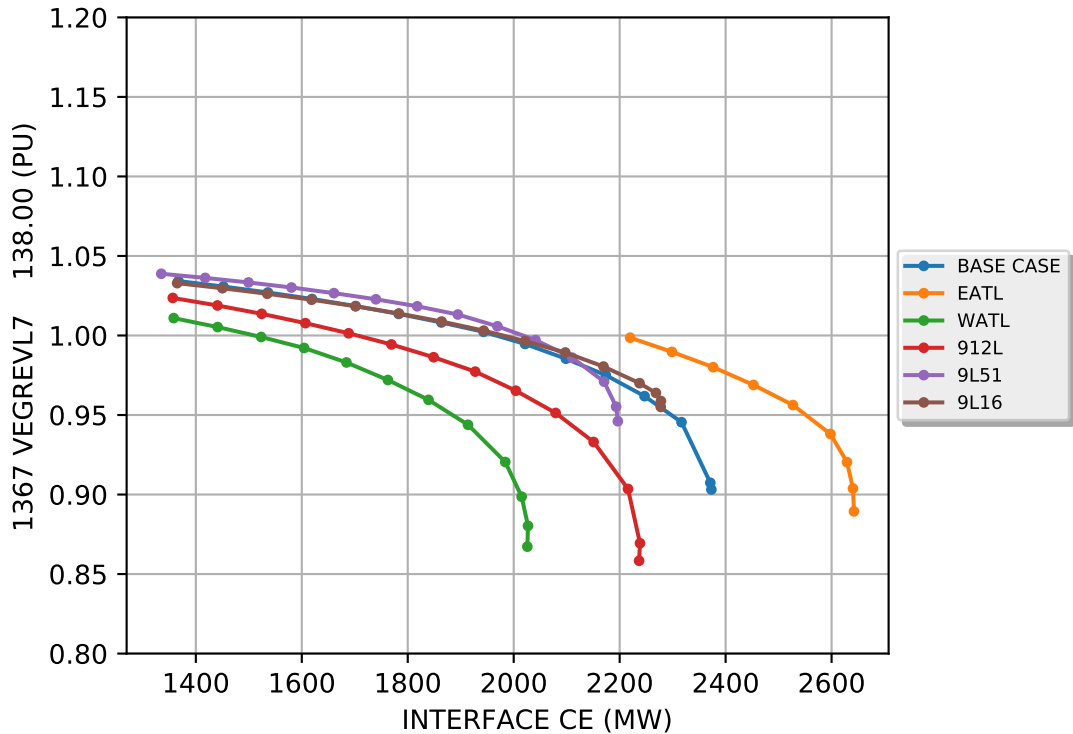


Figure: E-3-172

Case: H11, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 19.0%

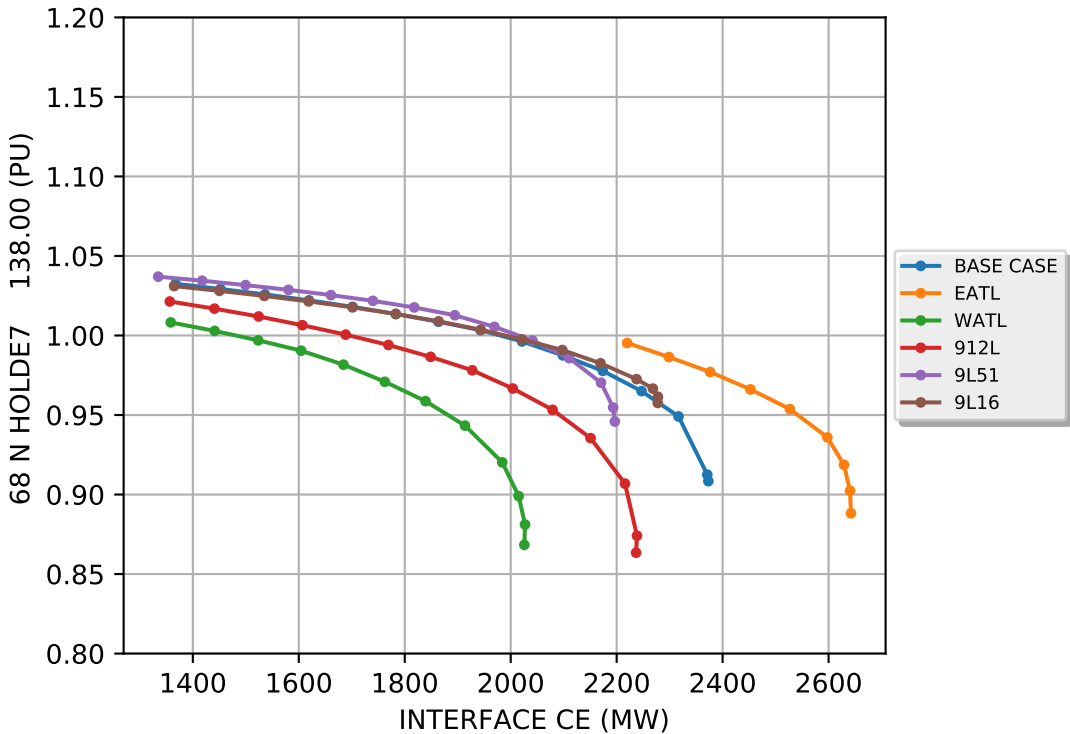


Figure: E-3-173

Case: H11, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 19.0%

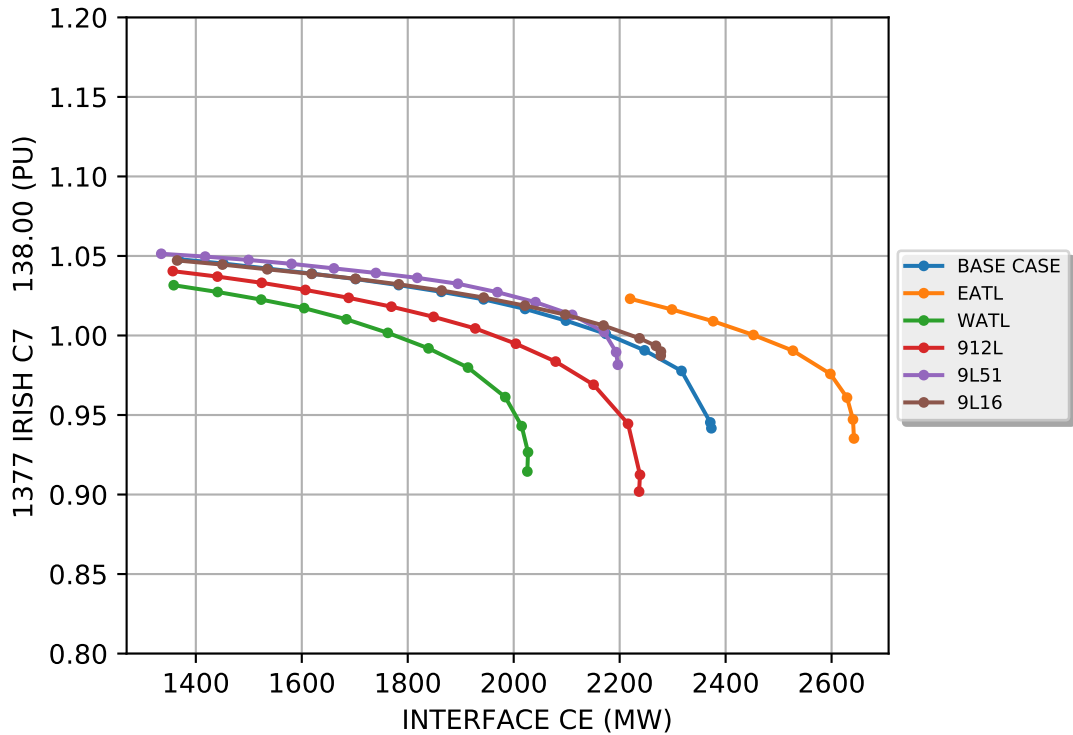


Figure: E-3-174

Case: H11, Option: BOTH2

Min Voltage: 0.91 PU, Min Margin: 19.0%

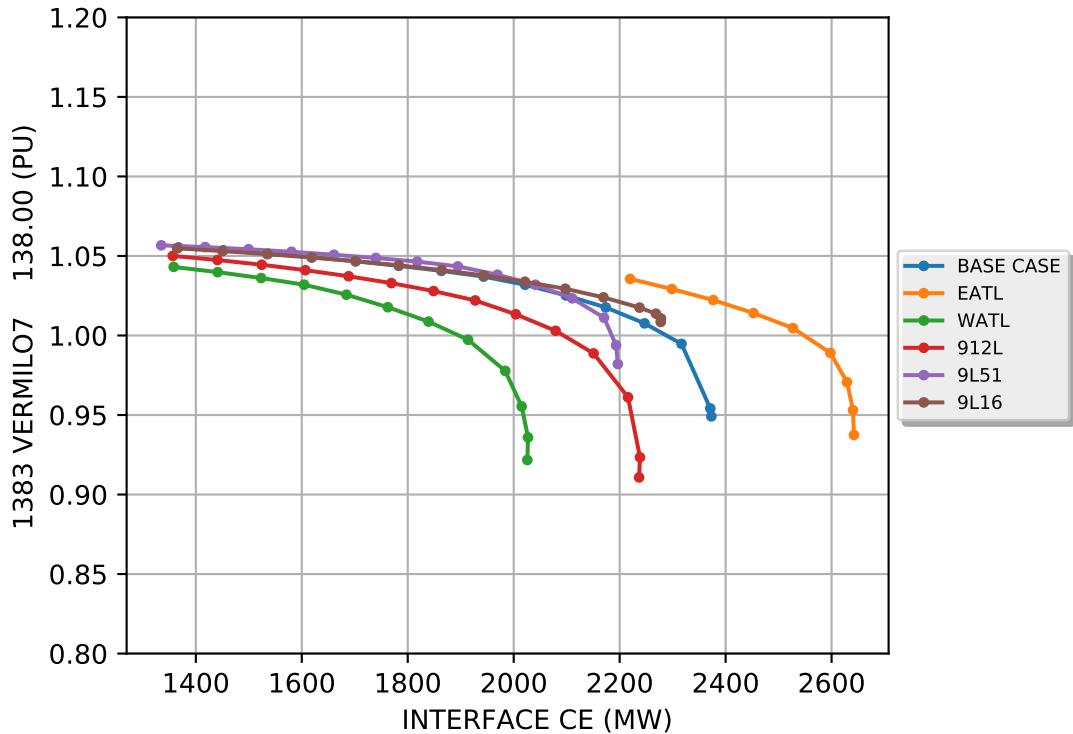


Figure: E-3-175

Case: H11, Option: BOTH2

Min Voltage: 0.92 PU, Min Margin: 19.0%

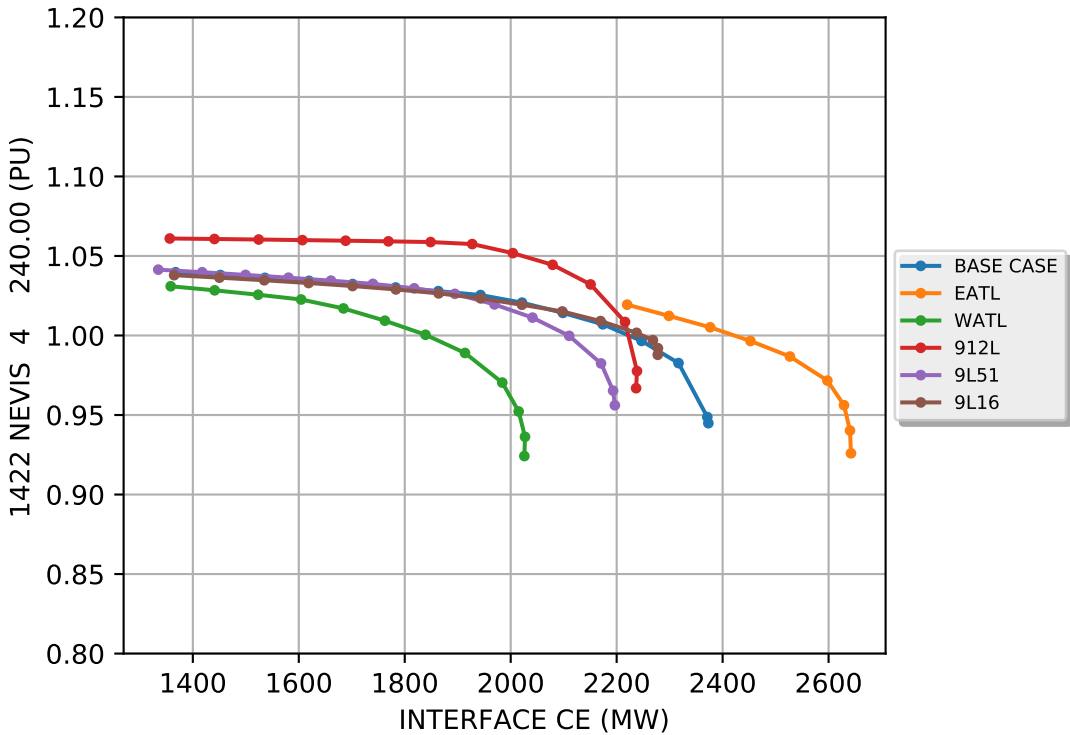


Figure: E-3-176

Case: H11, Option: BOTH2

Min Voltage: 0.91 PU, Min Margin: 19.0%

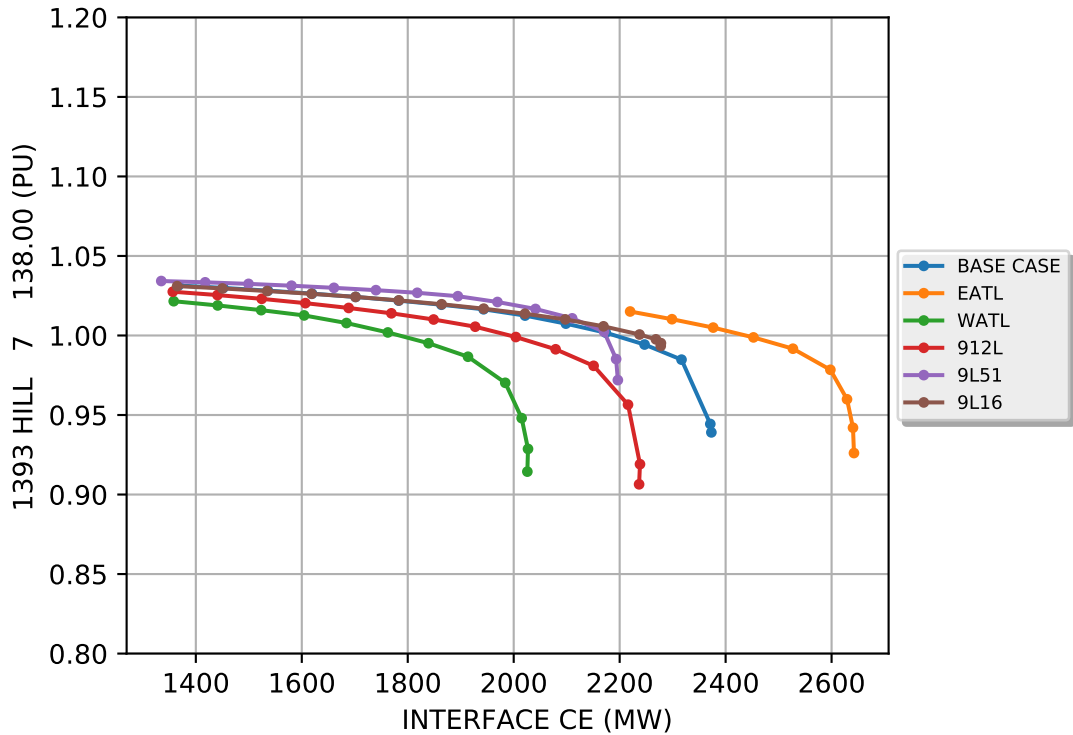


Figure: E-3-177

Case: H11, Option: BOTH2

Min Voltage: 0.83 PU, Min Margin: 19.0%

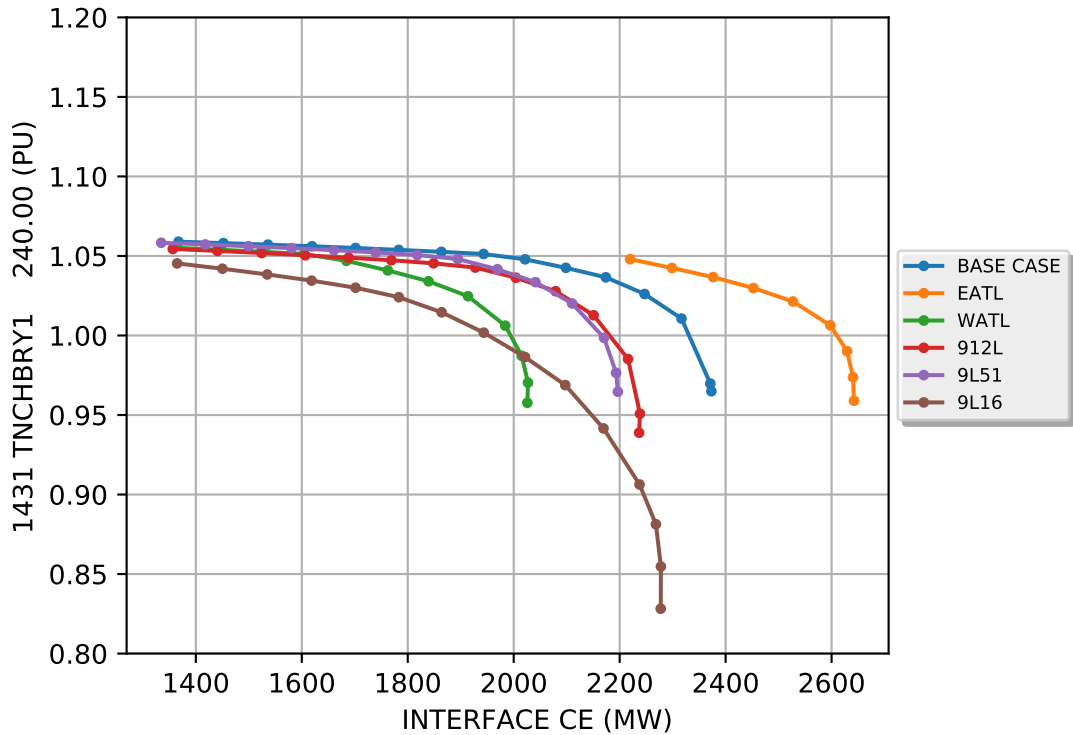


Figure: E-3-178

Case: H11, Option: BOTH2

Min Voltage: 0.83 PU, Min Margin: 19.0%

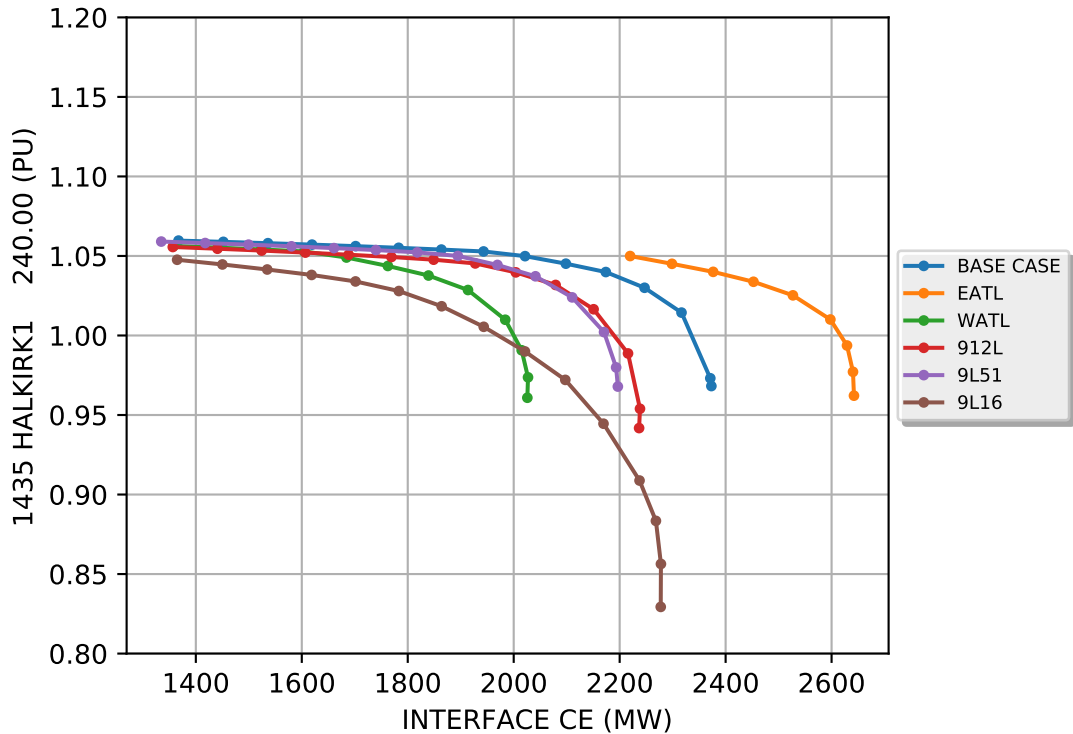


Figure: E-3-179

Case: H11, Option: BOTH2

Min Voltage: 0.91 PU, Min Margin: 19.0%

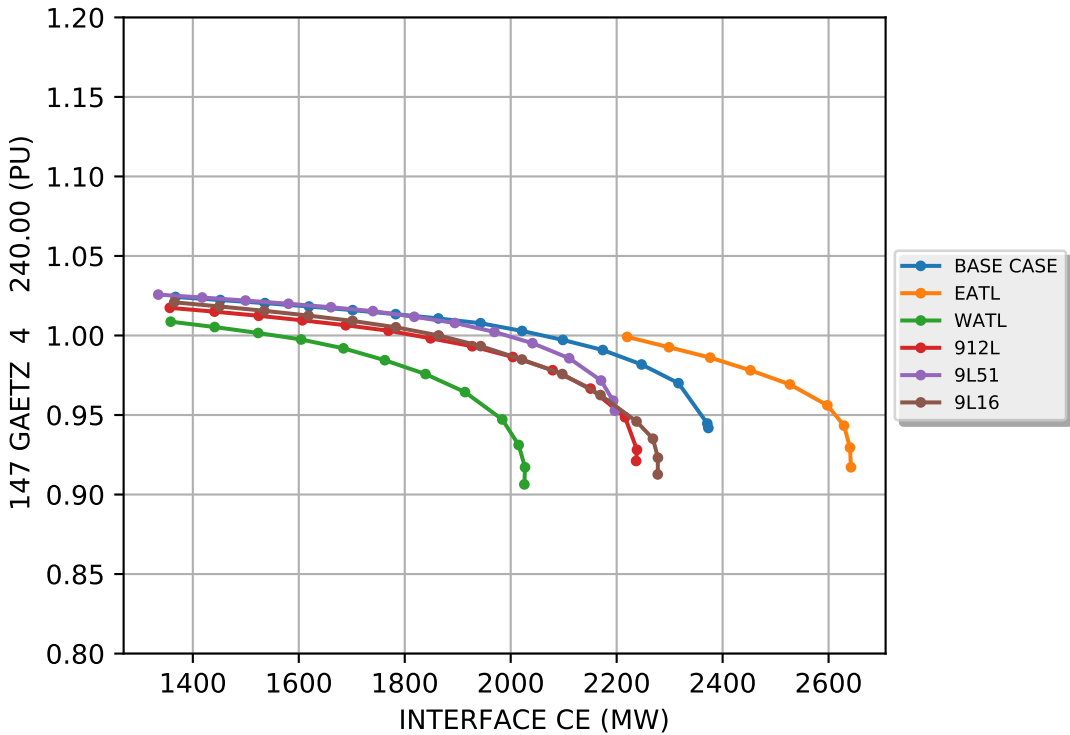


Figure: E-3-180

Case: H11, Option: BOTH2

Min Voltage: 0.92 PU, Min Margin: 19.0%

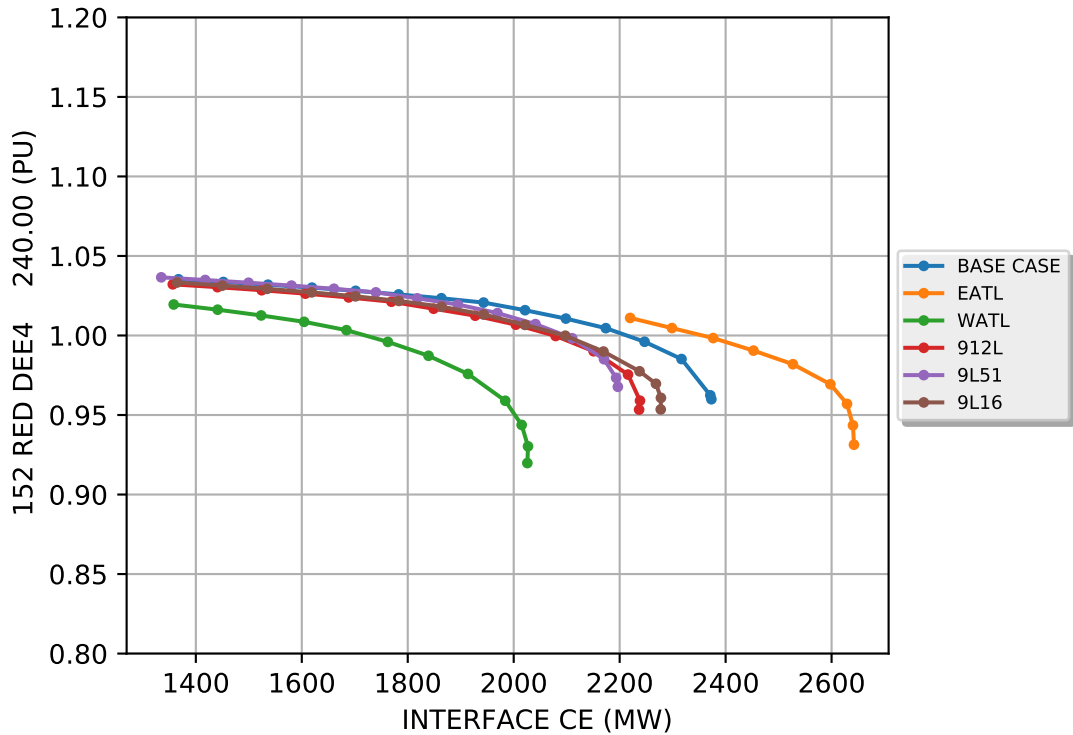


Figure: E-3-181

Case: H7, Option: BOTHC2

Min Voltage: 0.81 PU, Min Margin: 25.3%

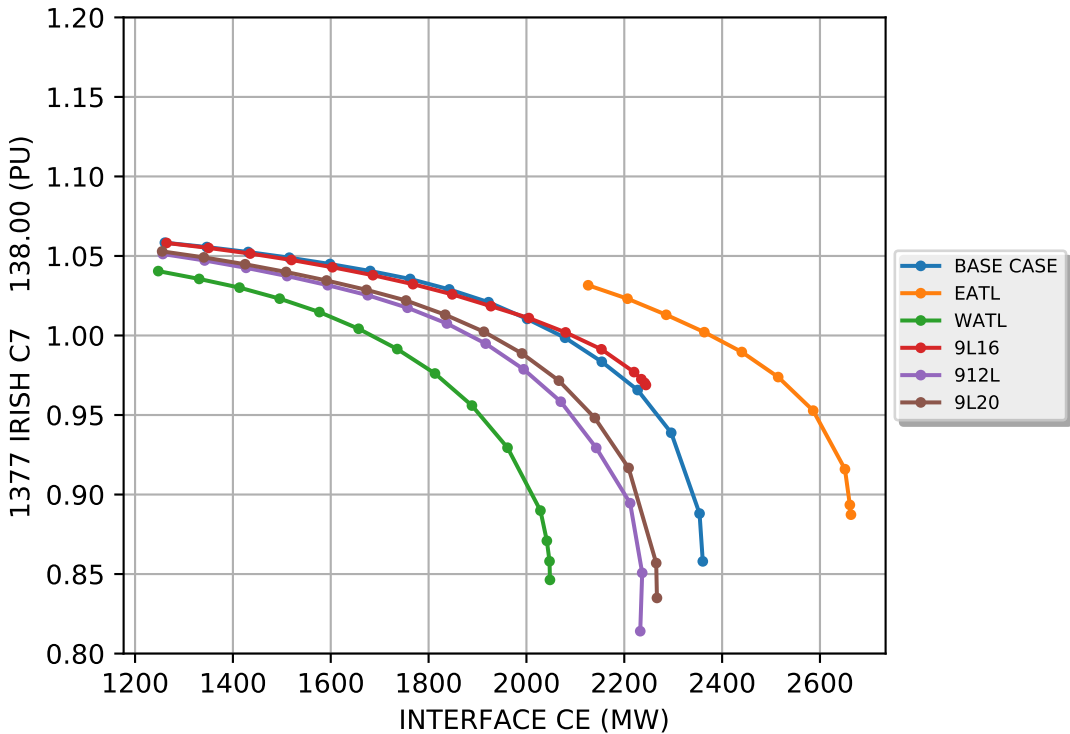


Figure: E-3-182

Case: H7, Option: BOTHC2

Min Voltage: 0.83 PU, Min Margin: 25.3%

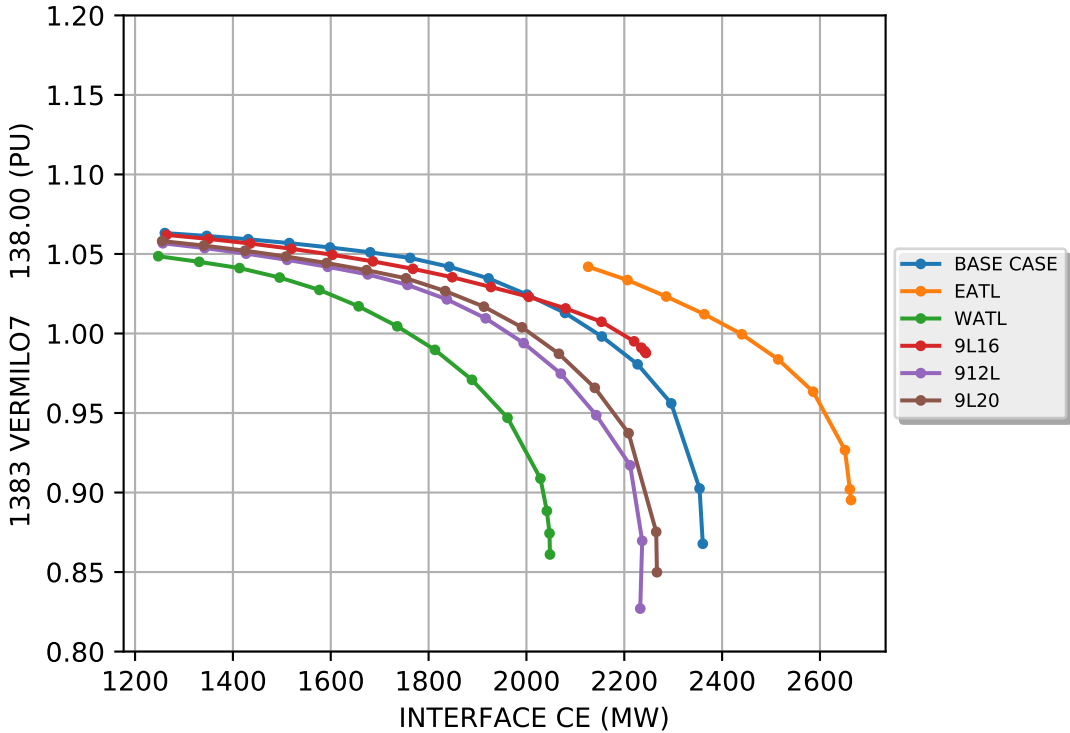


Figure: E-3-183

Case: H7, Option: BOTHC2

Min Voltage: 0.78 PU, Min Margin: 25.3%

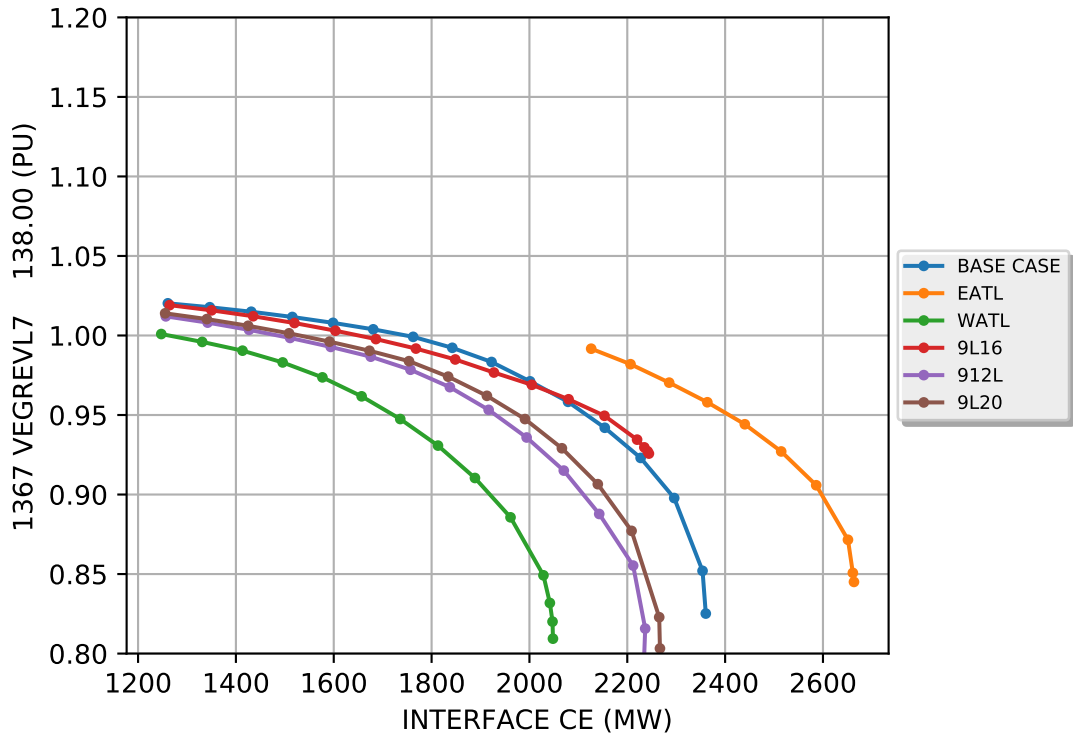


Figure: E-3-184

Case: H7, Option: BOTHC2

Min Voltage: 0.85 PU, Min Margin: 25.3%

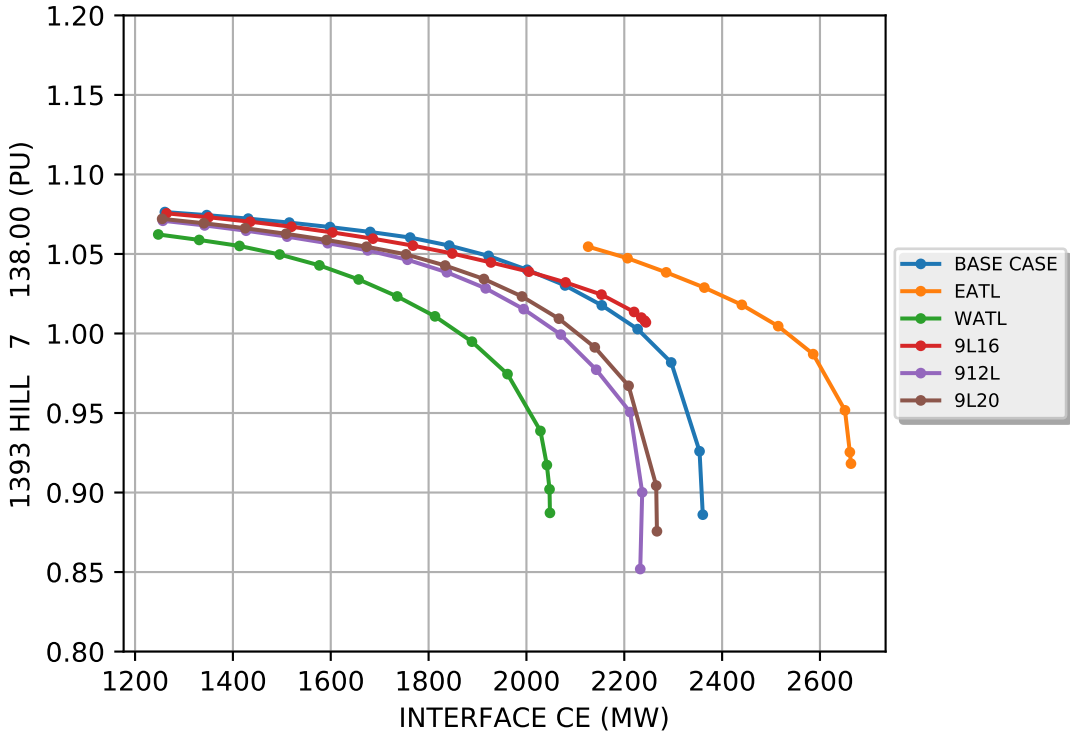


Figure: E-3-185

Case: H7, Option: BOTHC2

Min Voltage: 0.86 PU, Min Margin: 25.3%

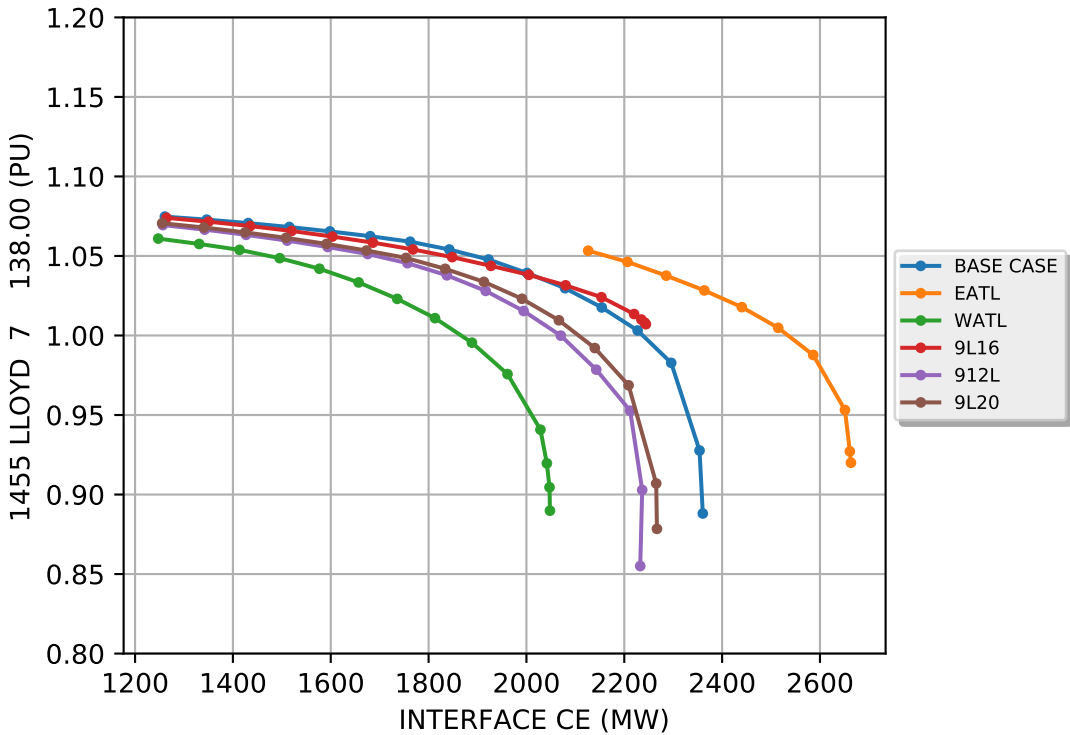


Figure: E-3-186

Case: H7, Option: BOTHC2

Min Voltage: 0.81 PU, Min Margin: 25.3%

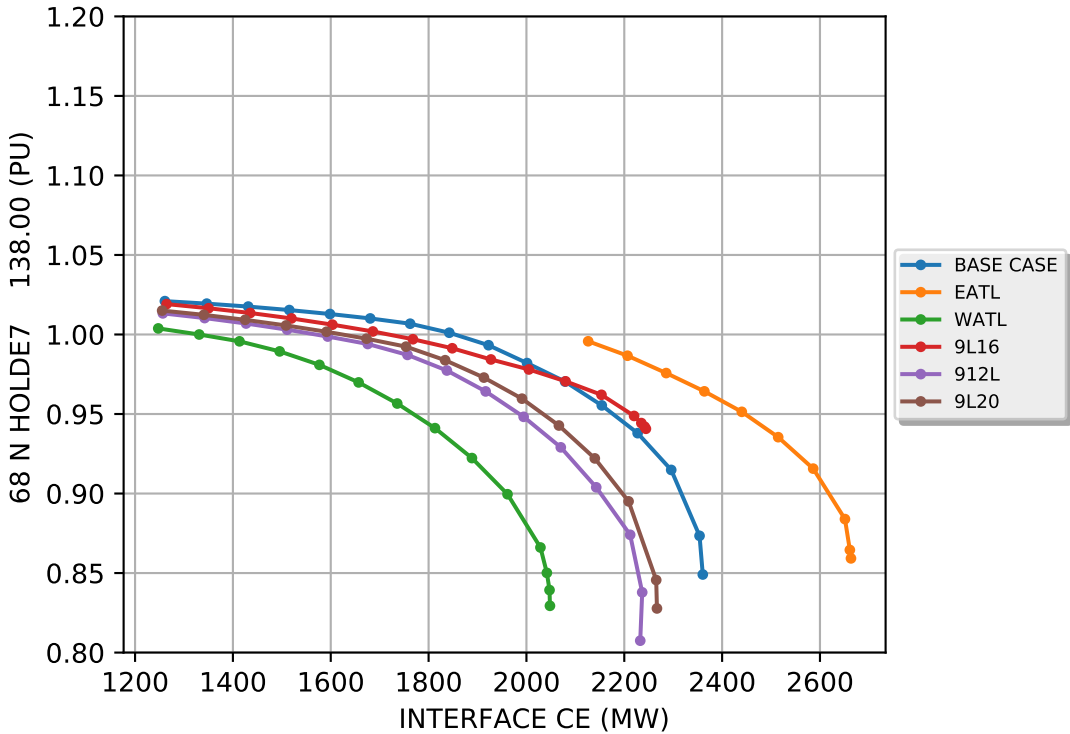


Figure: E-3-187

Case: H7, Option: BOTHC2

Min Voltage: 0.86 PU, Min Margin: 25.3%

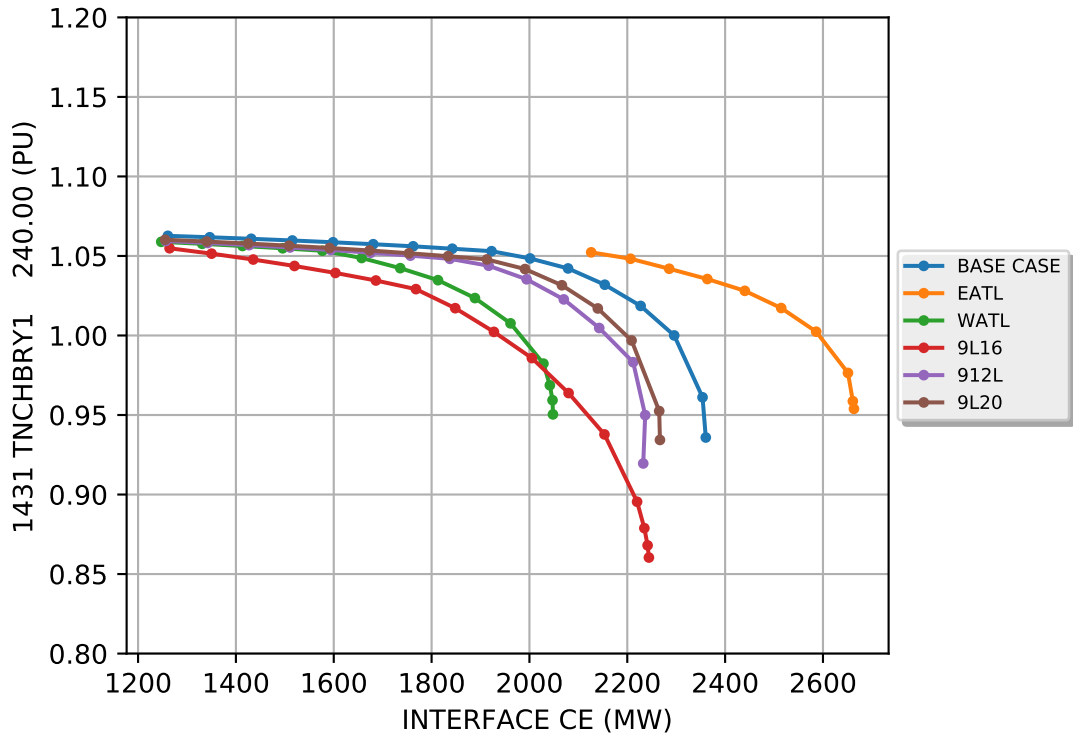


Figure: E-3-188

Case: H7, Option: BOTHC2

Min Voltage: 0.86 PU, Min Margin: 25.3%

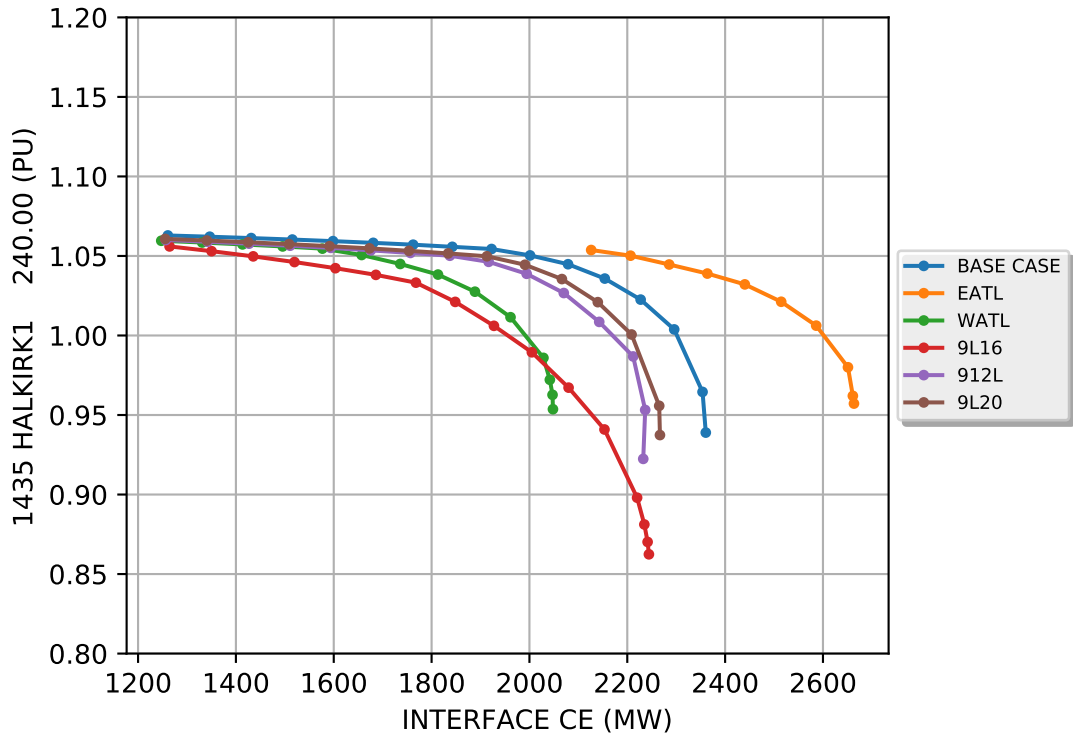


Figure: E-3-189

Case: H7, Option: BOTHC2

Min Voltage: 0.93 PU, Min Margin: 25.3%

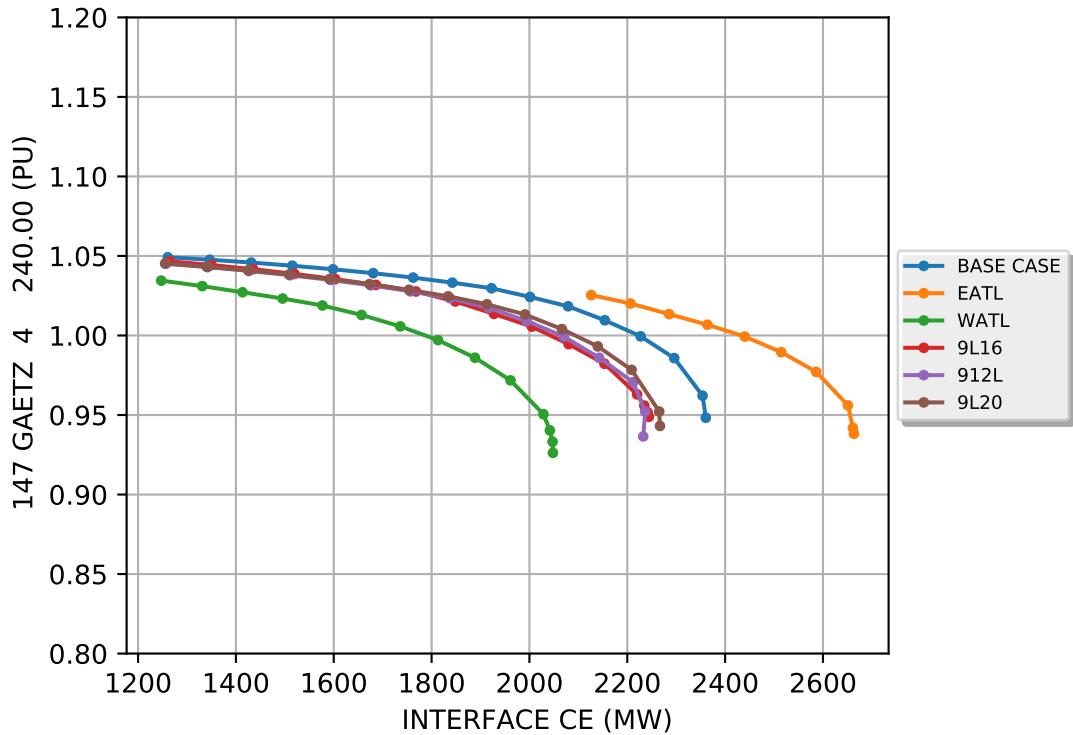


Figure: E-3-190

Case: M8, Option: BOTH2

Min Voltage: 0.83 PU, Min Margin: 27.1%

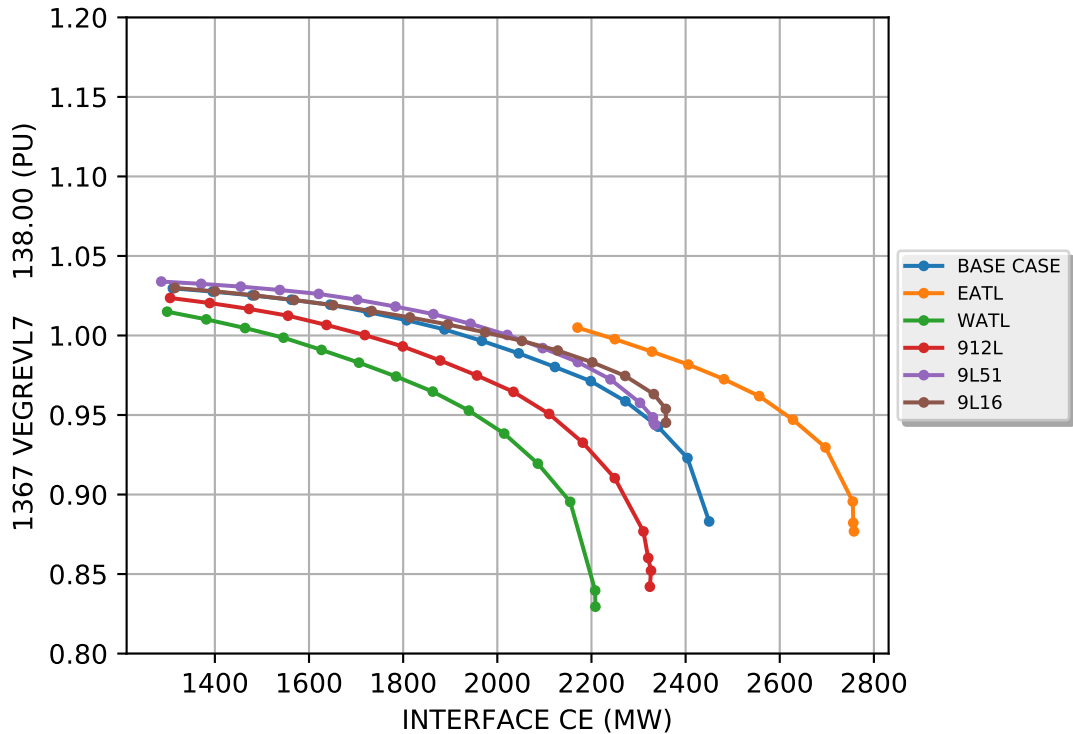


Figure: E-3-191

Case: M8, Option: BOTH2

Min Voltage: 0.88 PU, Min Margin: 27.1%

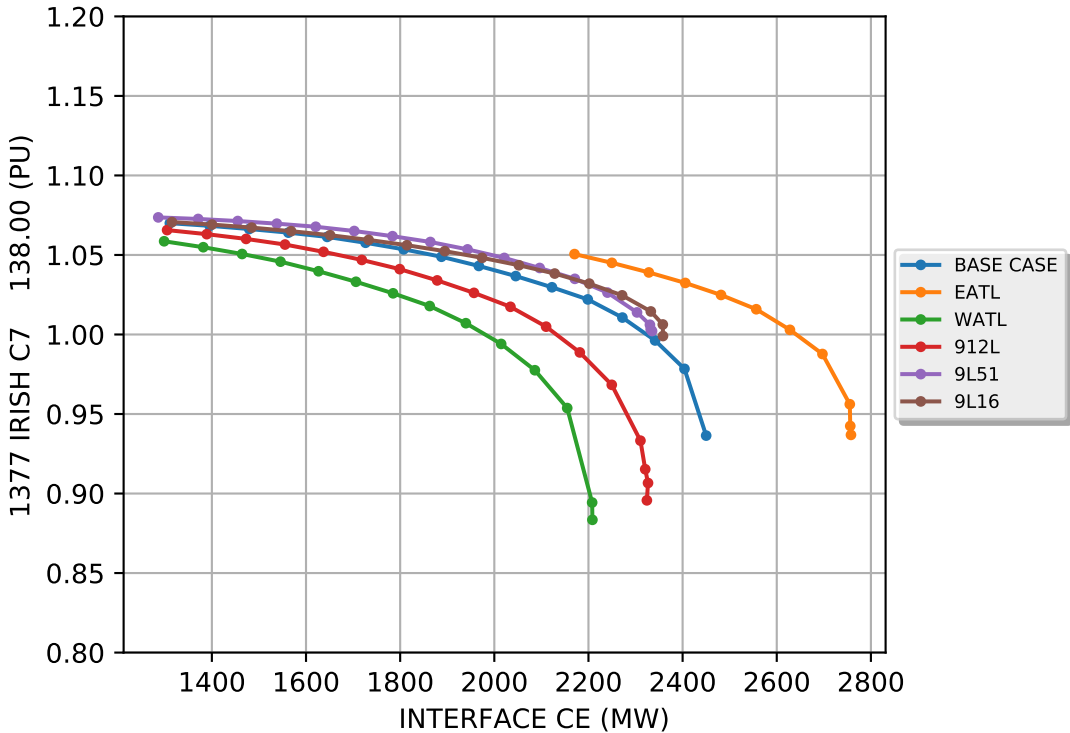


Figure: E-3-192

Case: M8, Option: BOTH2

Min Voltage: 0.85 PU, Min Margin: 27.1%

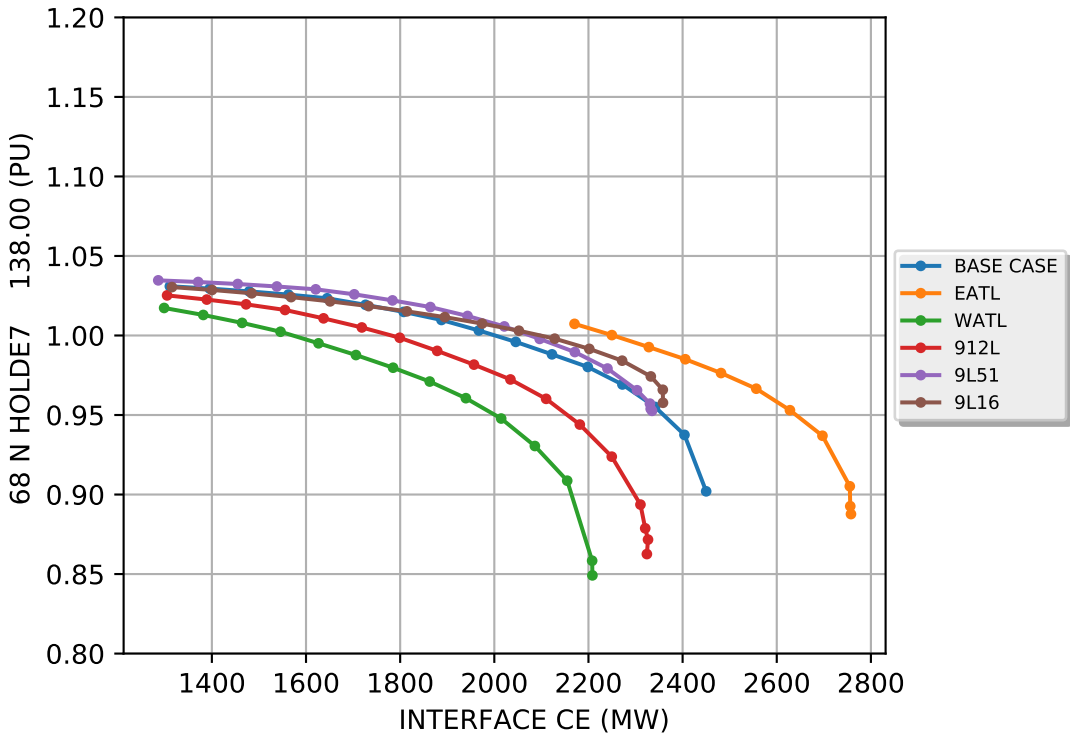


Figure: E-3-193

Case: M8, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 27.1%

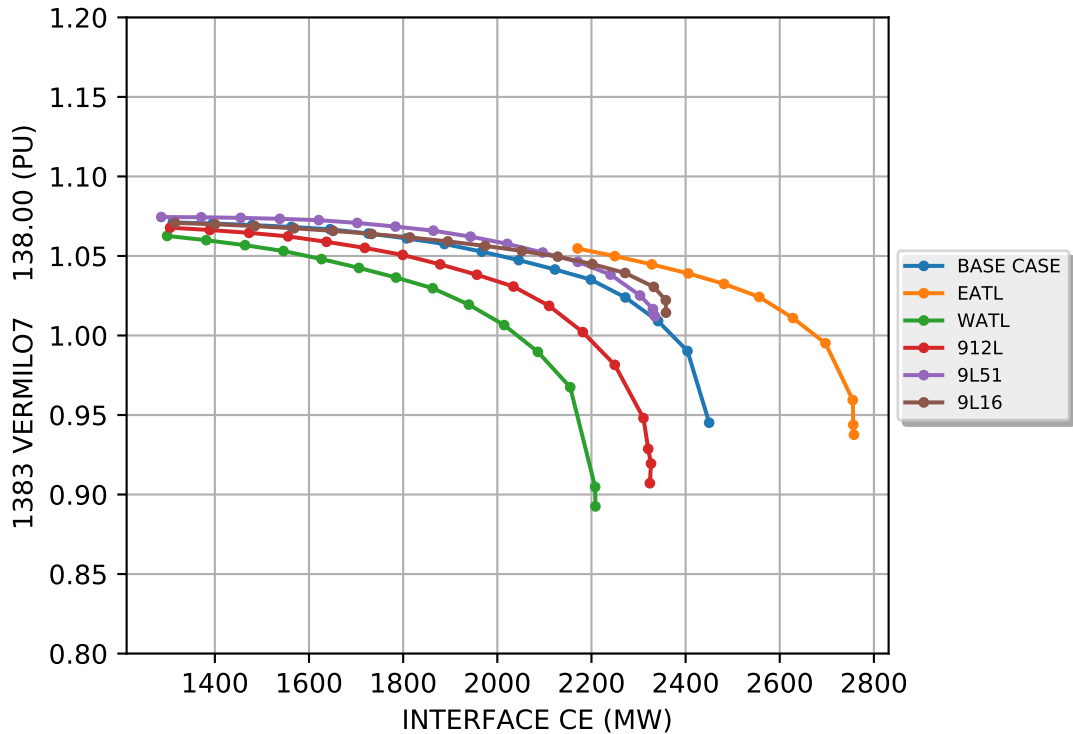


Figure: E-3-194

Case: M8, Option: BOTH2

Min Voltage: 0.93 PU, Min Margin: 27.1%

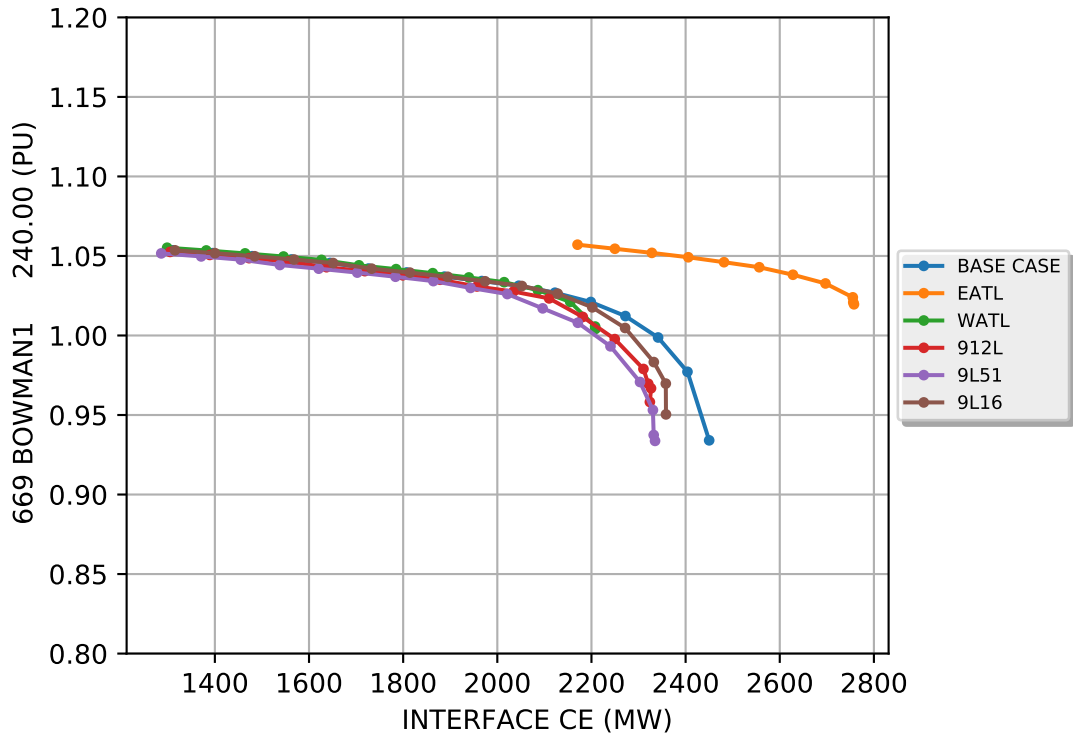


Figure: E-3-195

Case: M8, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 27.1%

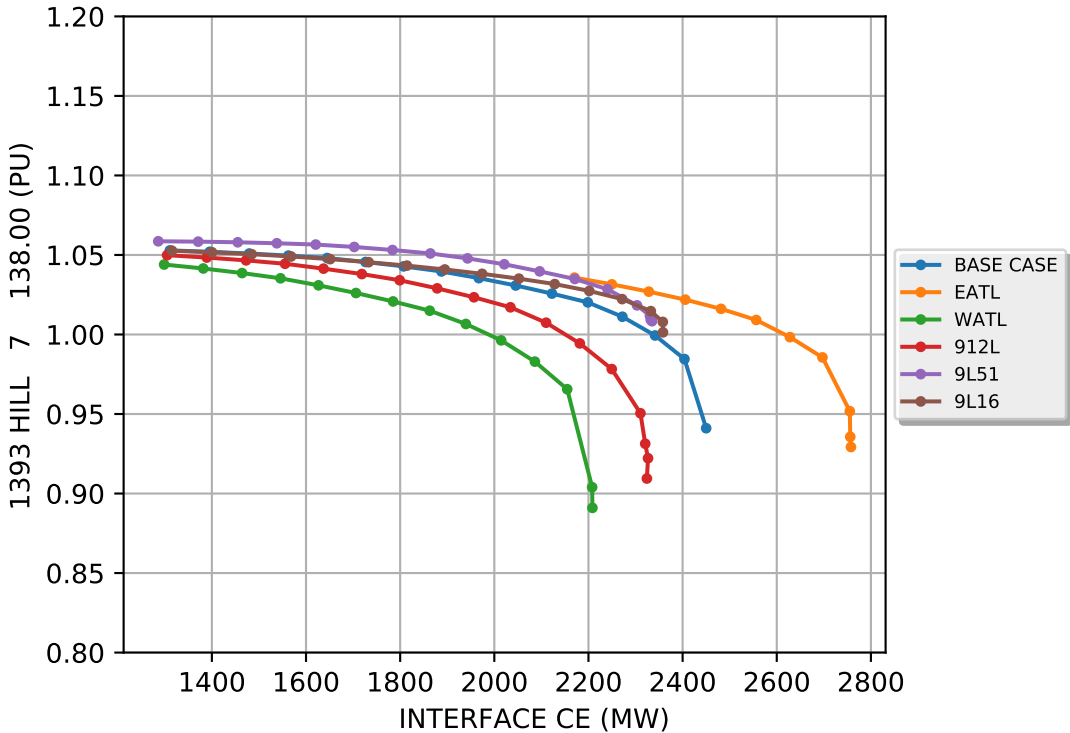


Figure: E-3-196

Case: M8, Option: BOTH2

Min Voltage: 0.93 PU, Min Margin: 27.1%

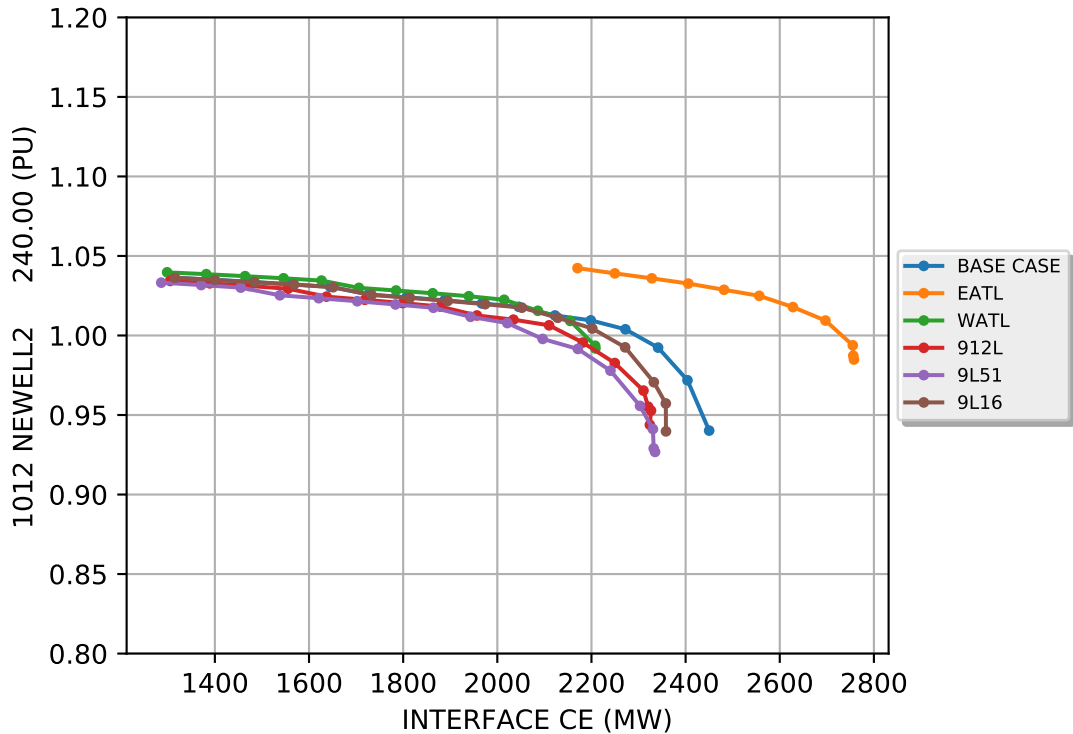


Figure: E-3-197

Case: M8, Option: BOTH2

Min Voltage: 0.93 PU, Min Margin: 27.1%

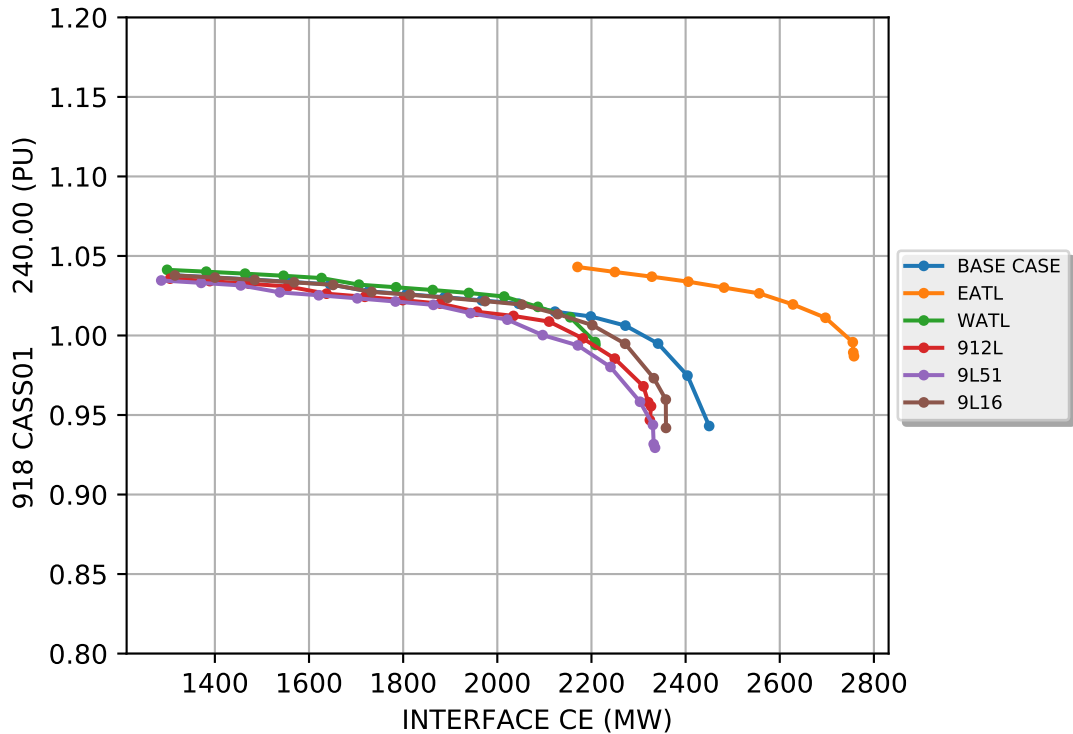


Figure: E-3-198

Case: M8, Option: BOTH2

Min Voltage: 0.93 PU, Min Margin: 27.1%

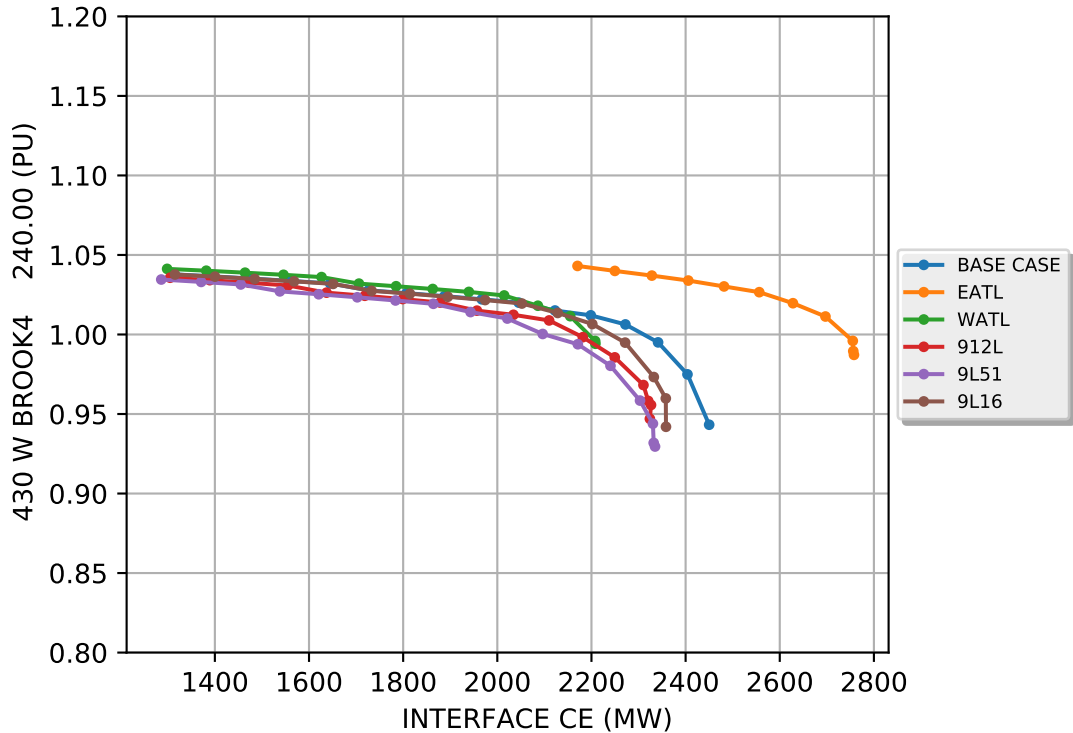


Figure: E-3-199

Case: M8, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 27.1%

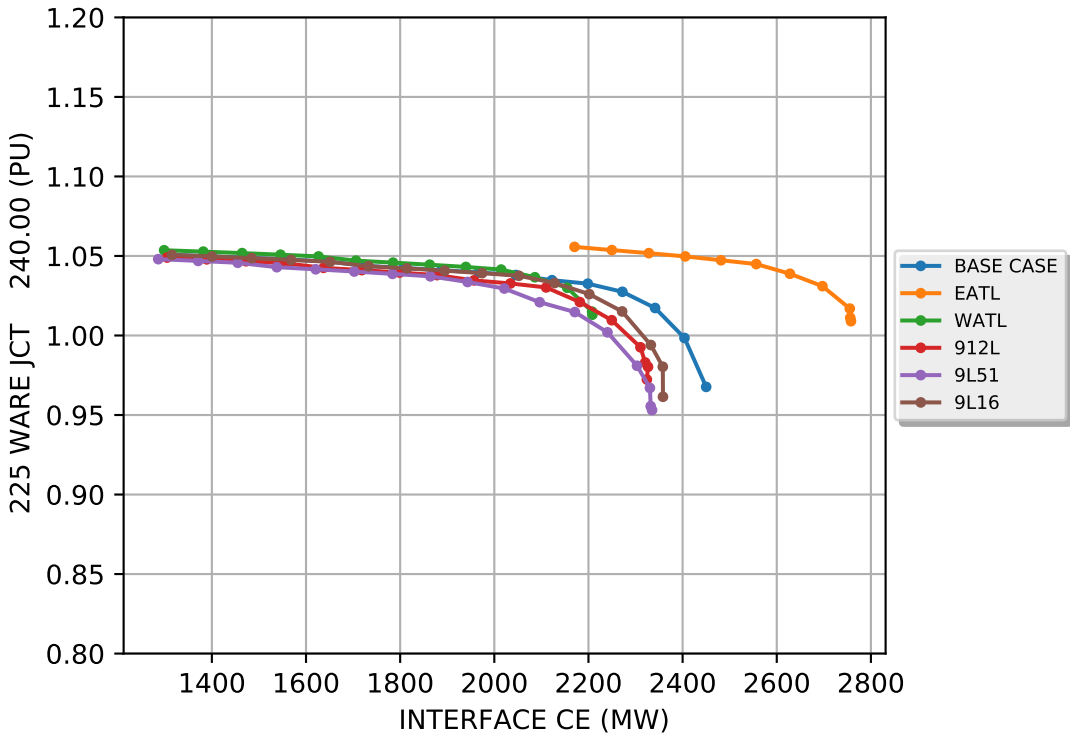


Figure: E-3-200

Case: M8, Option: BOTH2

Min Voltage: 0.83 PU, Min Margin: 27.1%

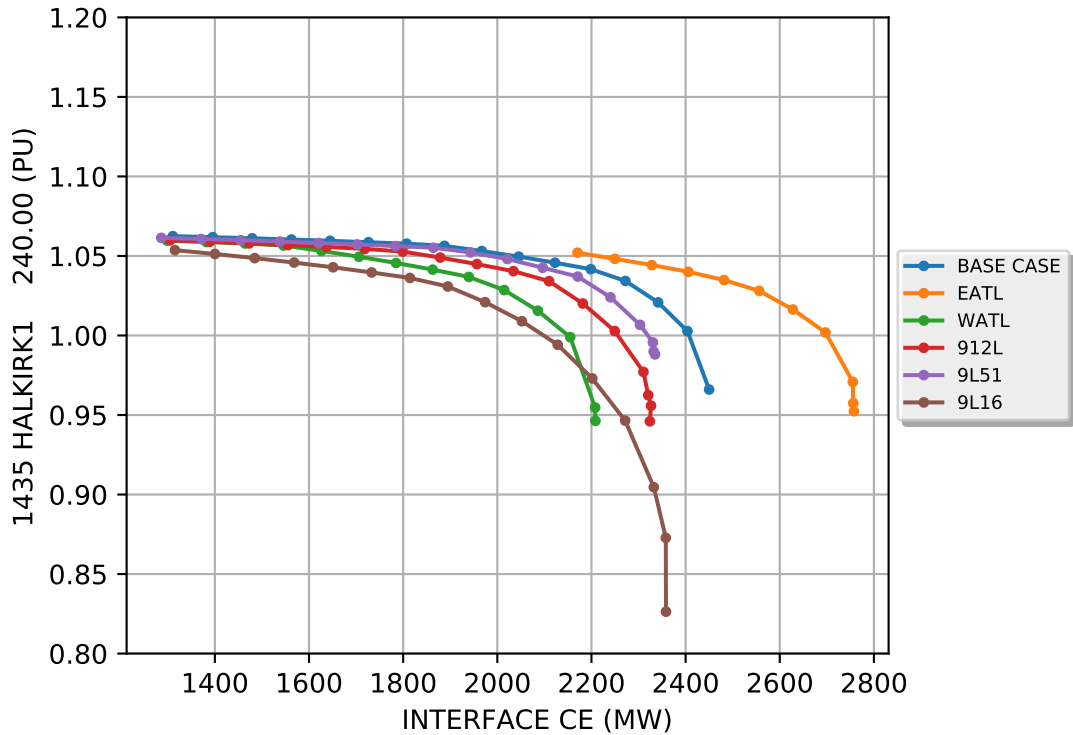


Figure: E-3-201

Case: M8, Option: BOTH2

Min Voltage: 0.83 PU, Min Margin: 27.1%

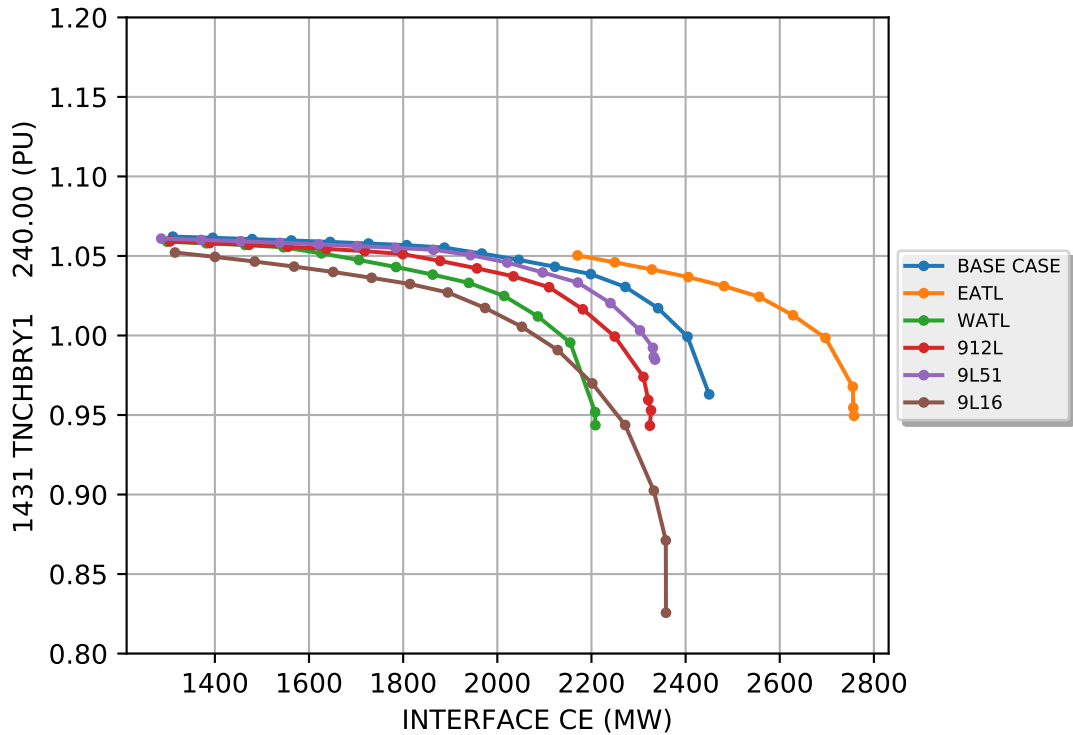


Figure: E-3-202

Case: M8, Option: BOTH2

Min Voltage: 0.93 PU, Min Margin: 27.1%

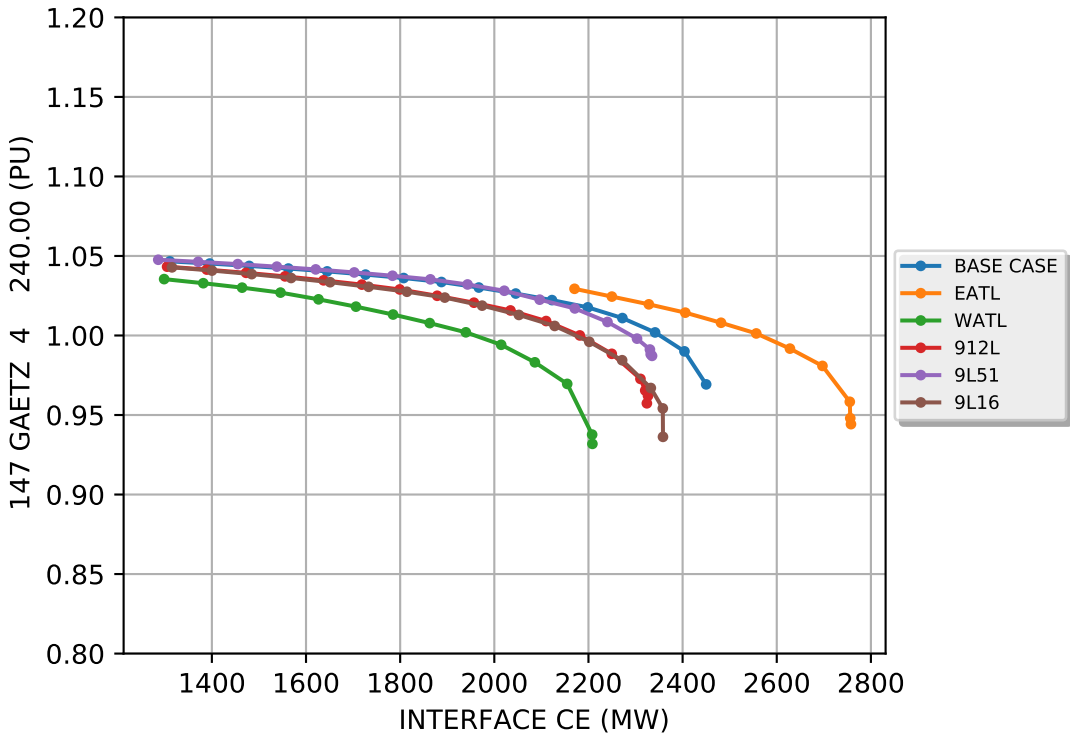


Figure: E-3-203

Case: M9, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 22.4%

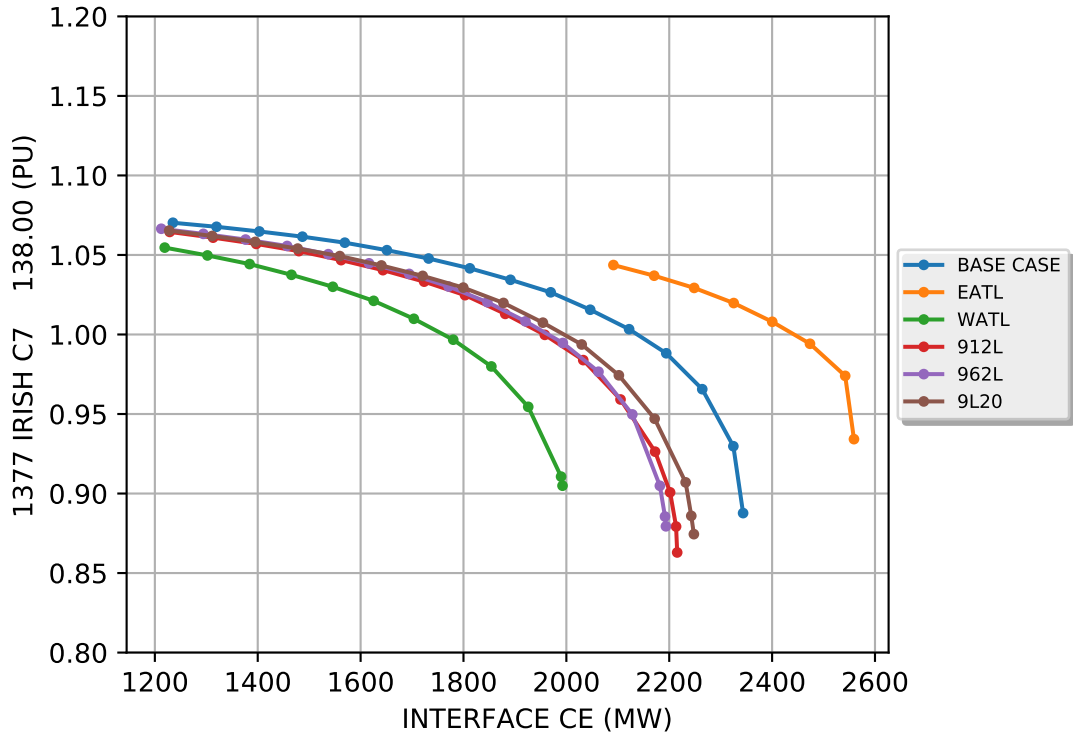


Figure: E-3-204

Case: M9, Option: BOTH2

Min Voltage: 0.83 PU, Min Margin: 22.4%

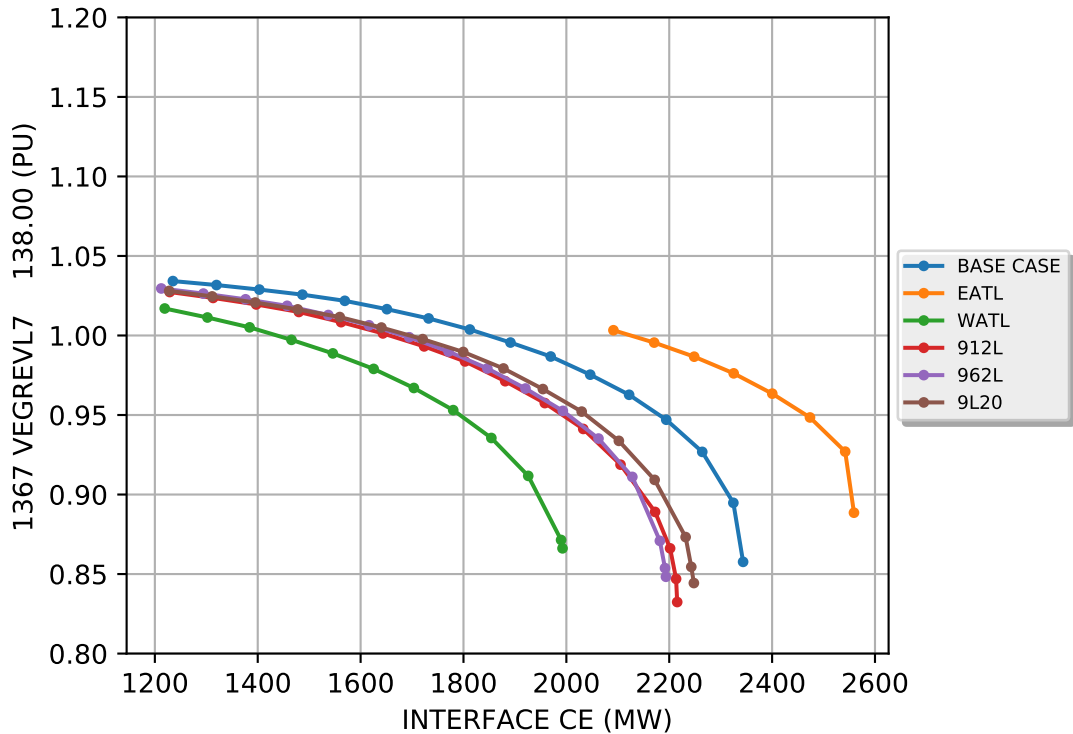


Figure: E-3-205

Case: M9, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 22.4%

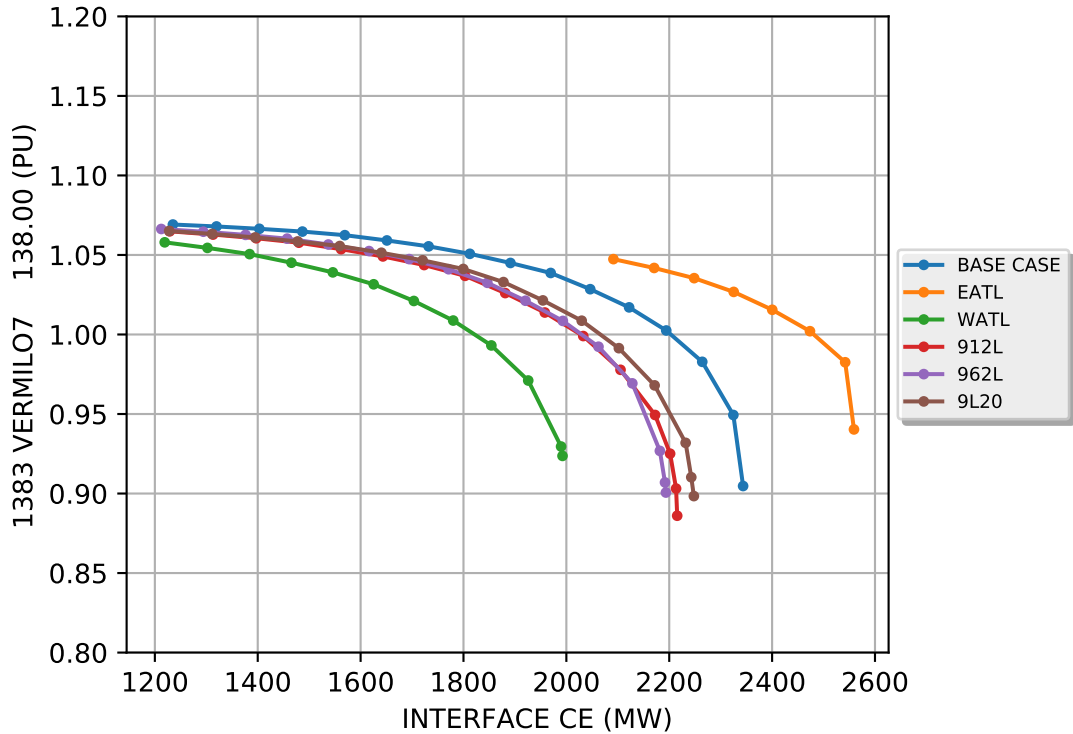


Figure: E-3-206

Case: M9, Option: BOTH2

Min Voltage: 0.85 PU, Min Margin: 22.4%

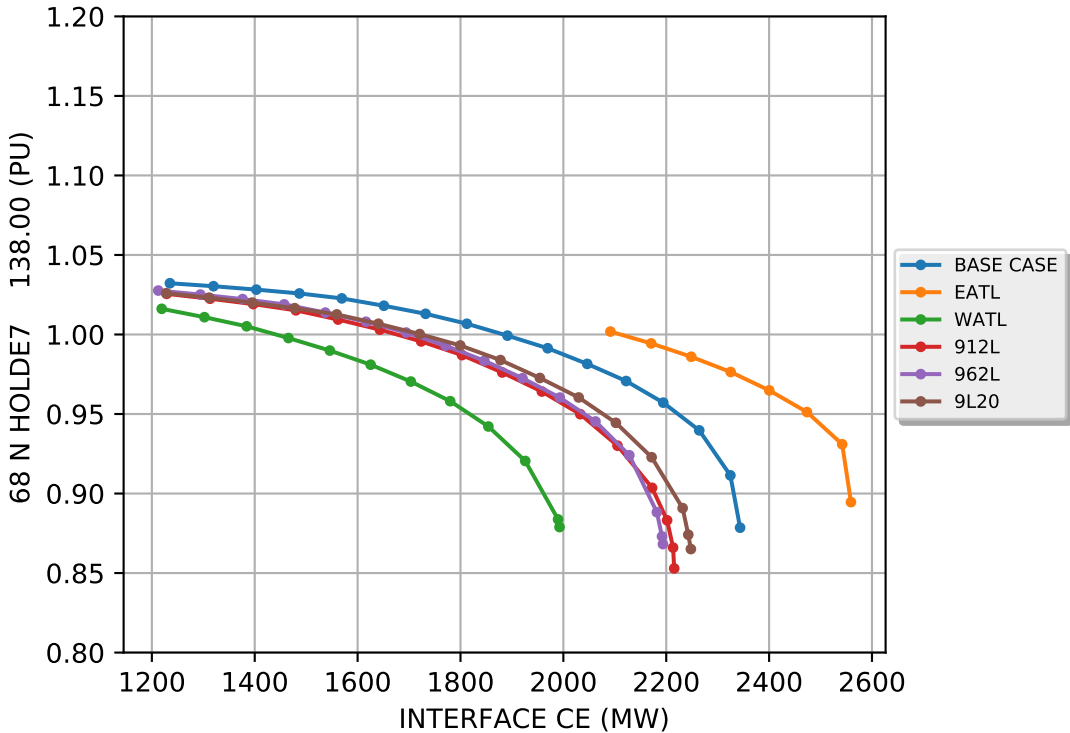


Figure: E-3-207

Case: M9, Option: BOTH2

Min Voltage: 0.88 PU, Min Margin: 22.4%

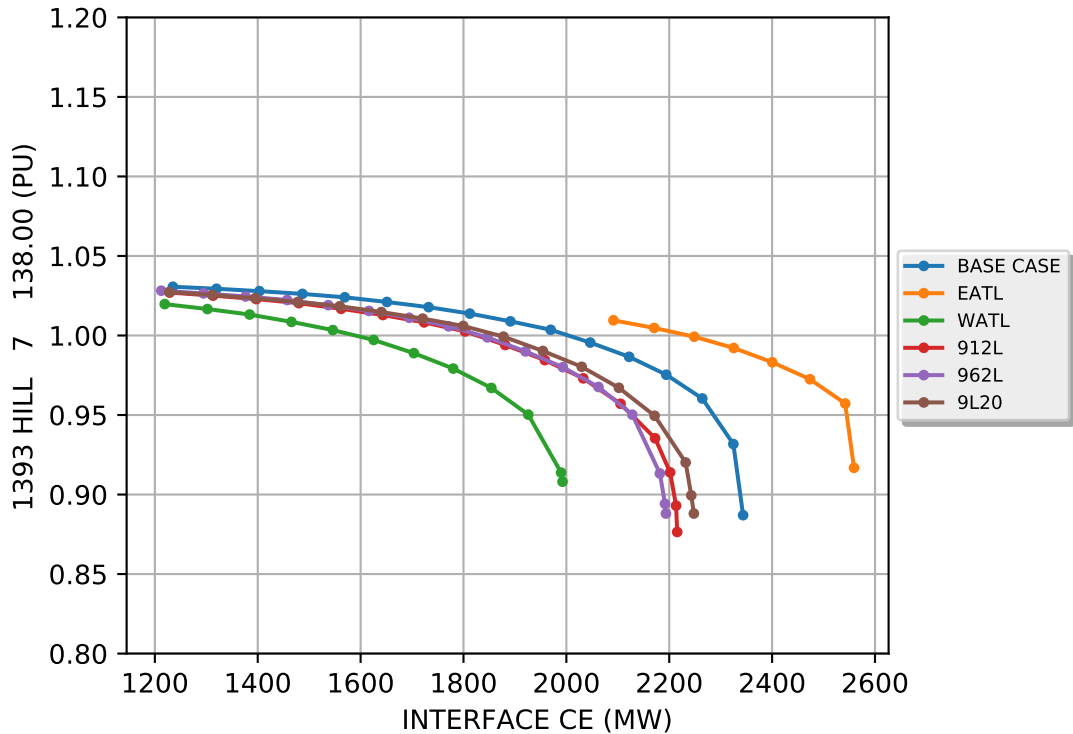


Figure: E-3-208

Case: M7, Option: BOTH2

Min Voltage: 0.88 PU, Min Margin: 35.3%

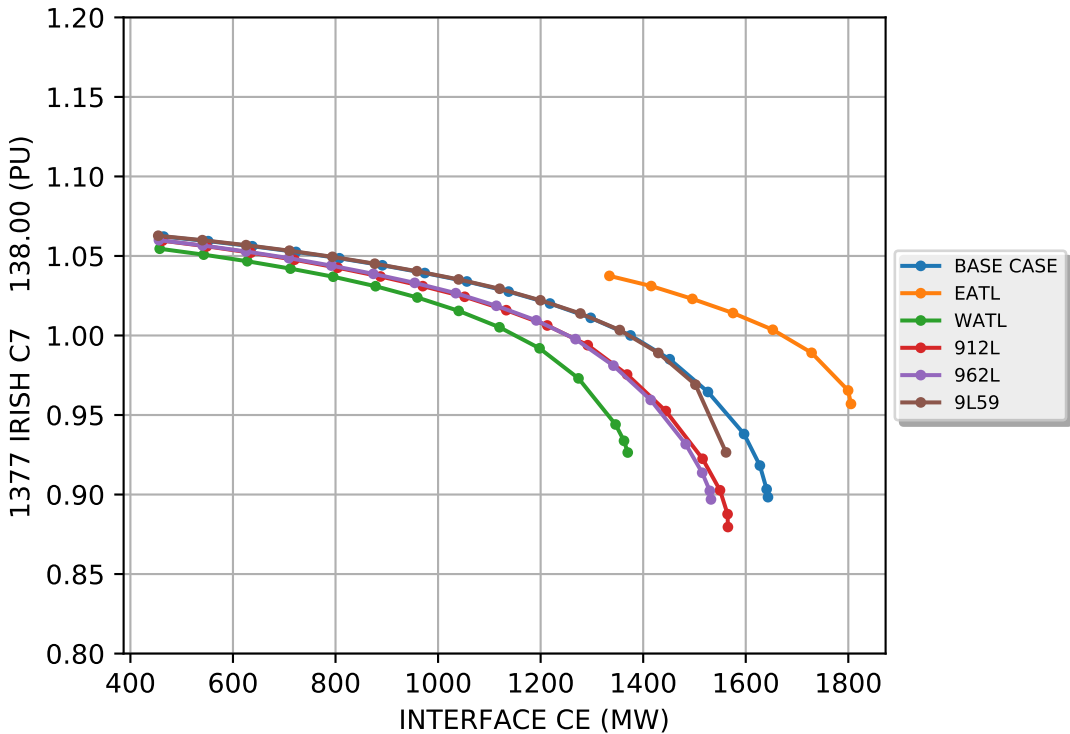


Figure: E-3-209

Case: M7, Option: BOTH2

Min Voltage: 0.85 PU, Min Margin: 35.3%

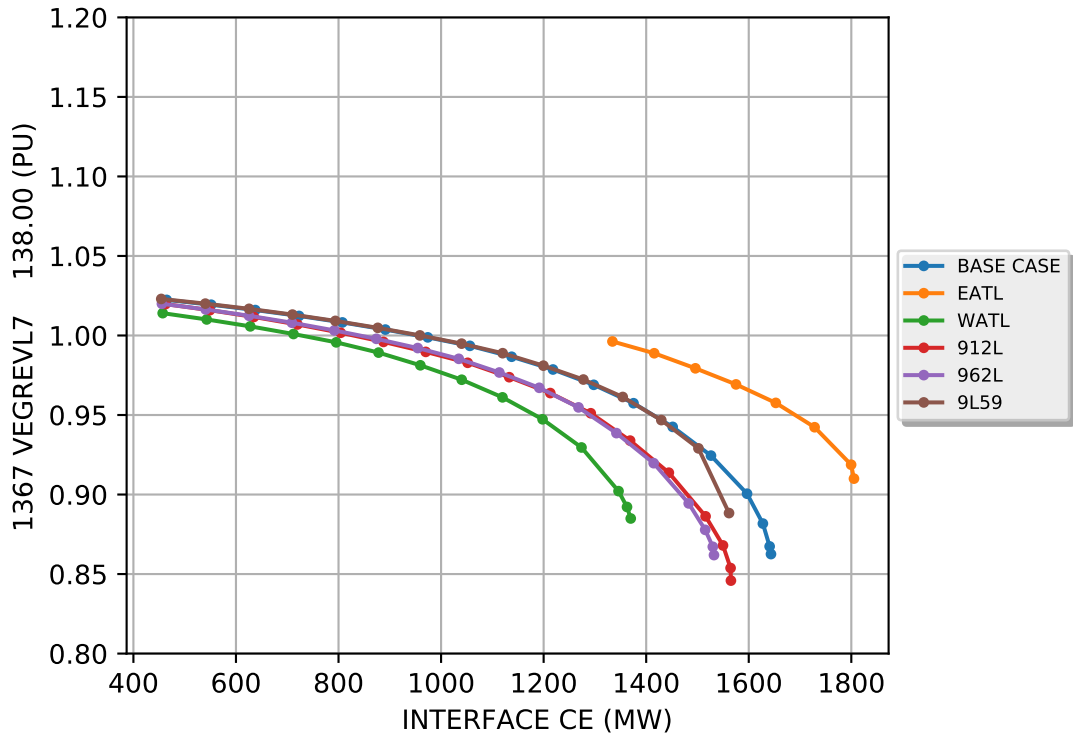


Figure: E-3-210

Case: M7, Option: BOTH2

Min Voltage: 0.87 PU, Min Margin: 35.3%

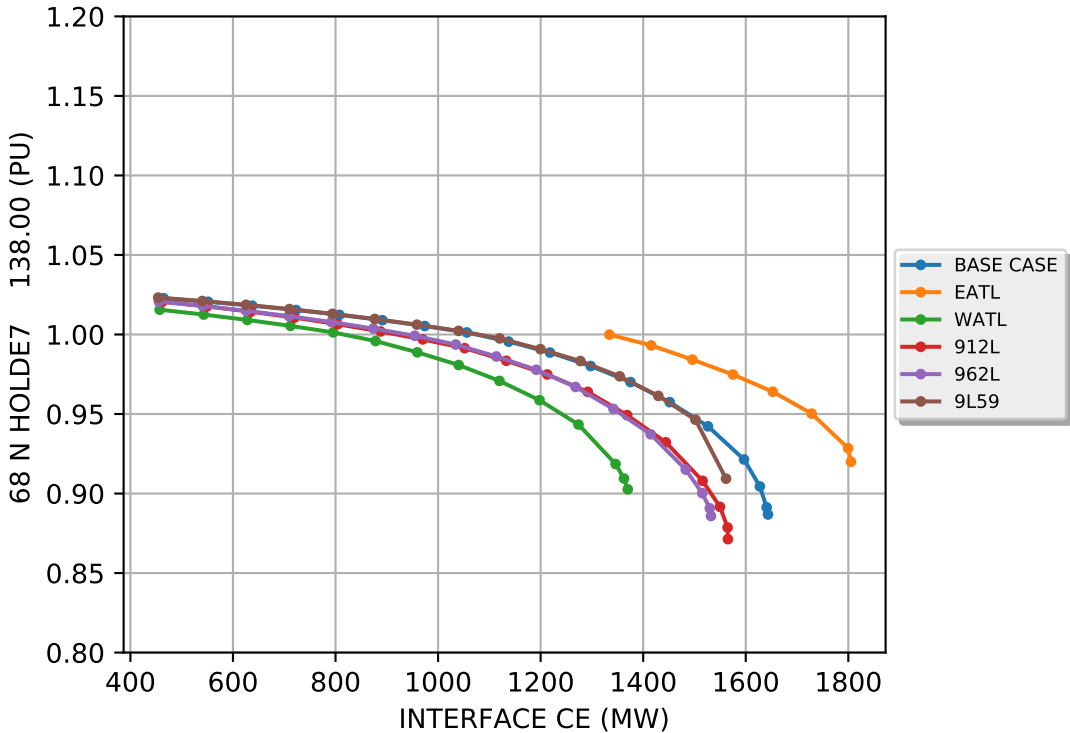


Figure: E-3-211

Case: M7, Option: BOTH2

Min Voltage: 0.92 PU, Min Margin: 35.3%

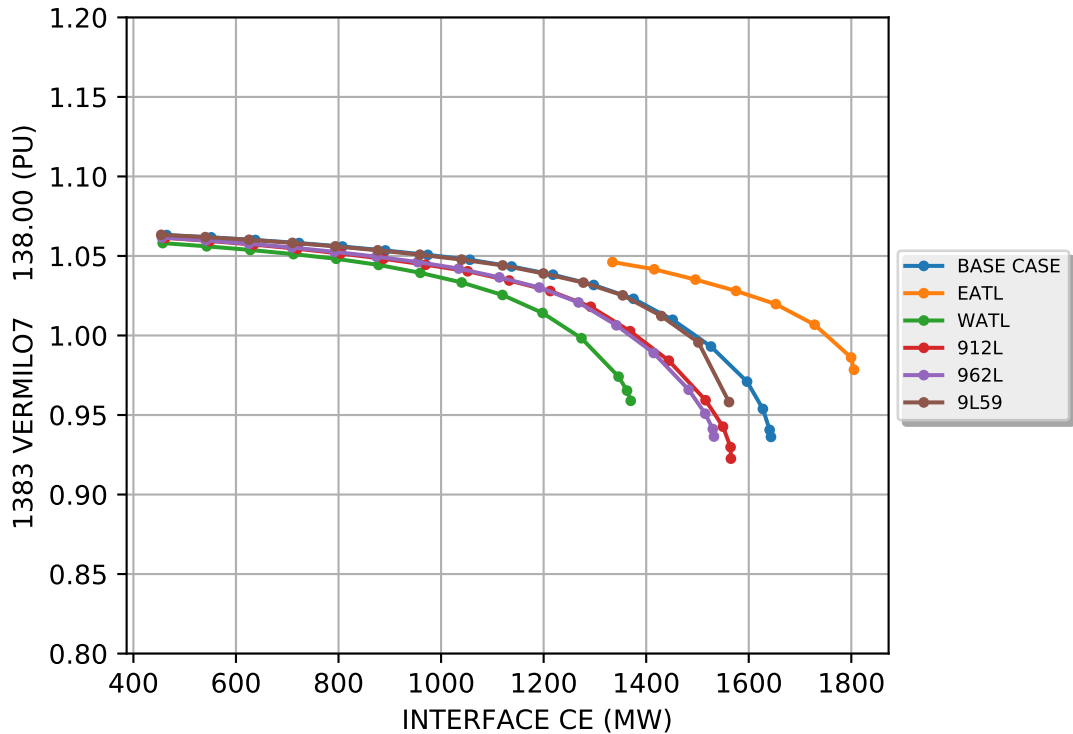


Figure: E-3-212

Case: M7, Option: BOTH2

Min Voltage: 0.93 PU, Min Margin: 35.3%

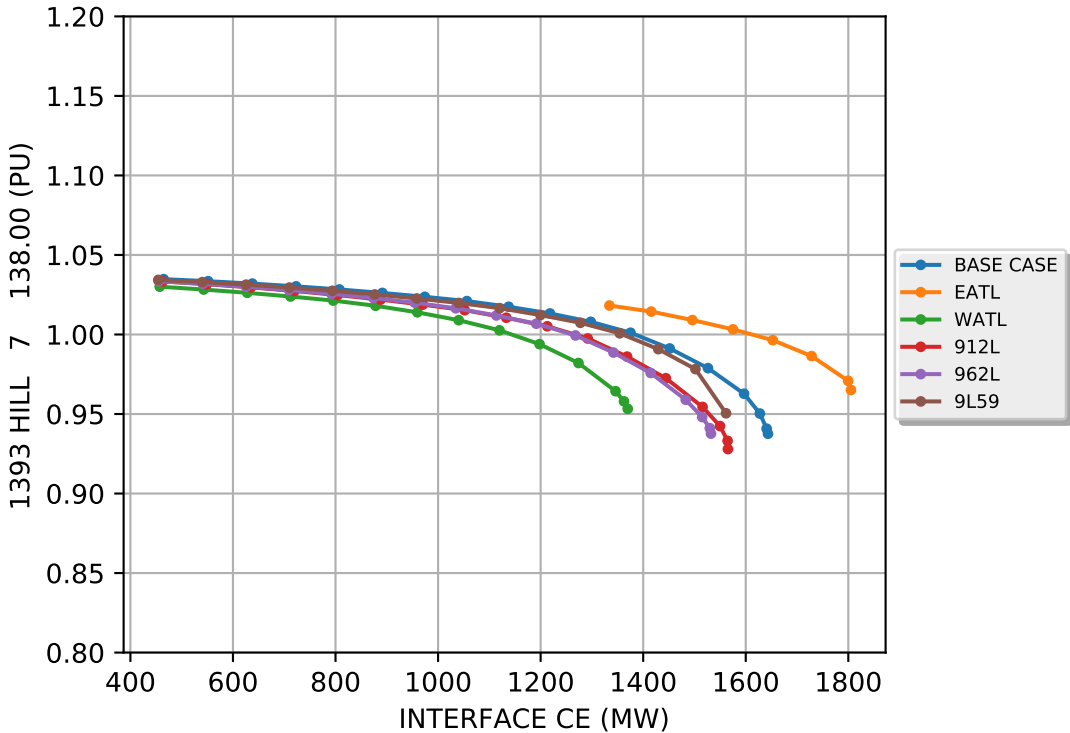
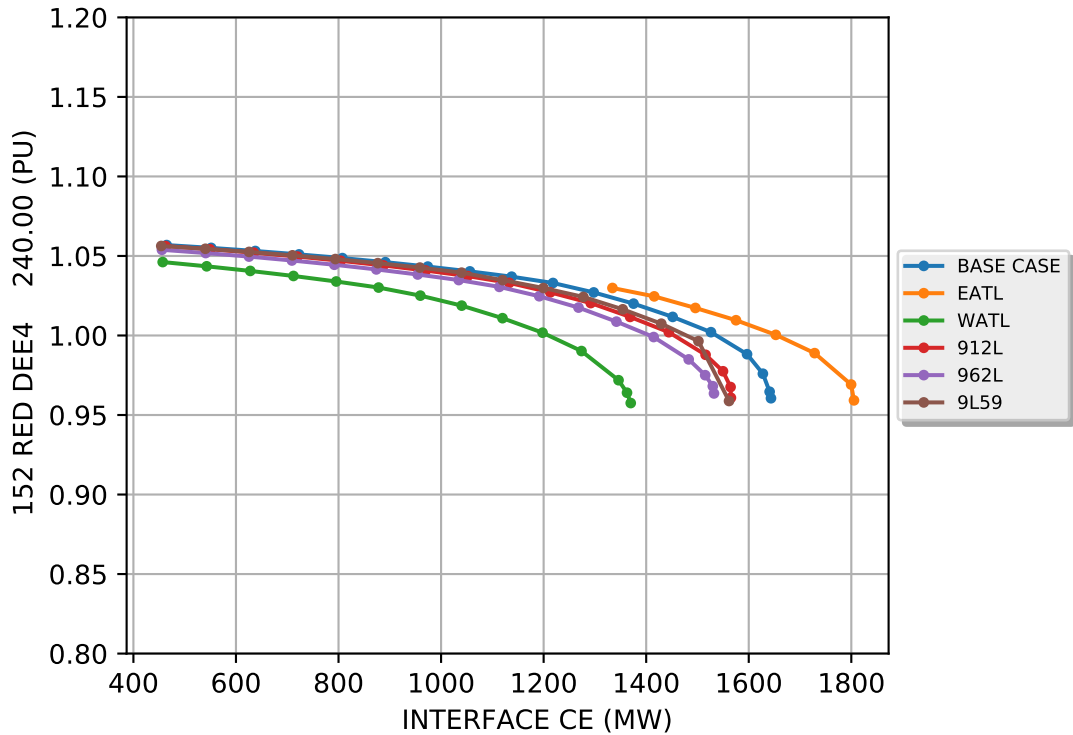


Figure: E-3-213

Case: M7, Option: BOTH2

Min Voltage: 0.96 PU, Min Margin: 35.3%



Worst Case Summaries:

Min Voltage: 0.78 PU, Page: 184

Min Margin: 19.0%, Page: 172

Min Margin Maximum 0.9 PU Voltage: 17.8%, Page: 158

Voltages above 1.1 PU in pages:

Attachment E-4 - PV Results
CE, Option: Pre Project, Cat. C

Figure: E-4-1

Case: H5, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 26.9%

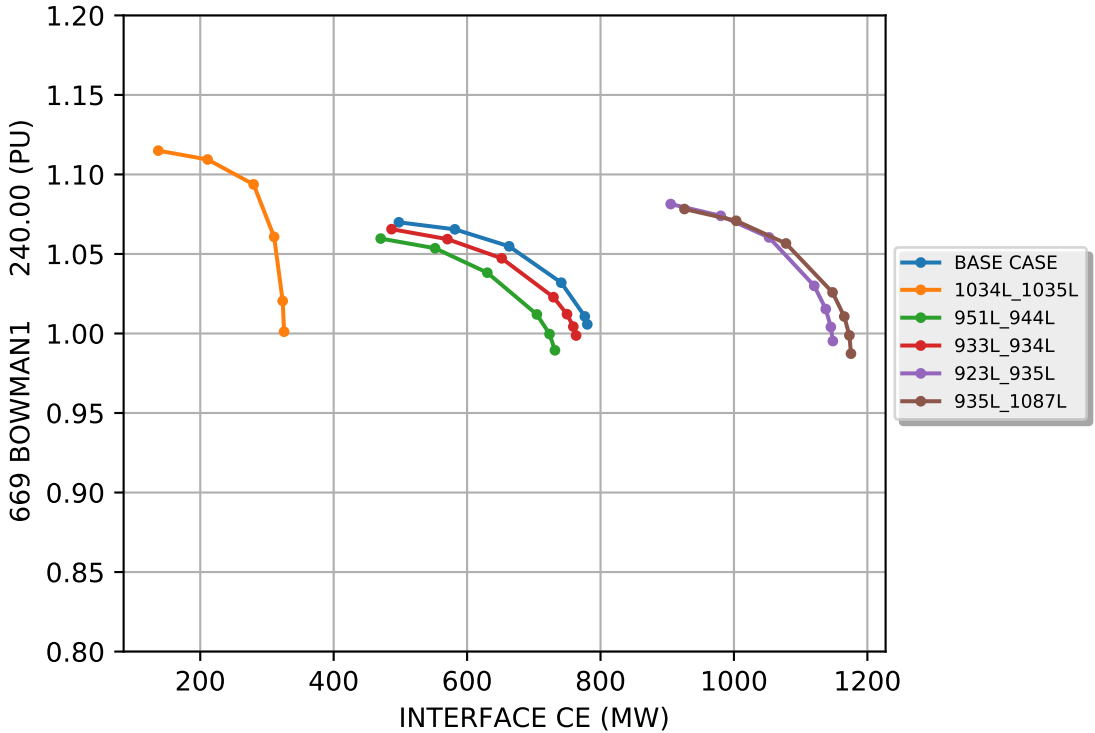


Figure: E-4-2

Case: H5, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 26.9%

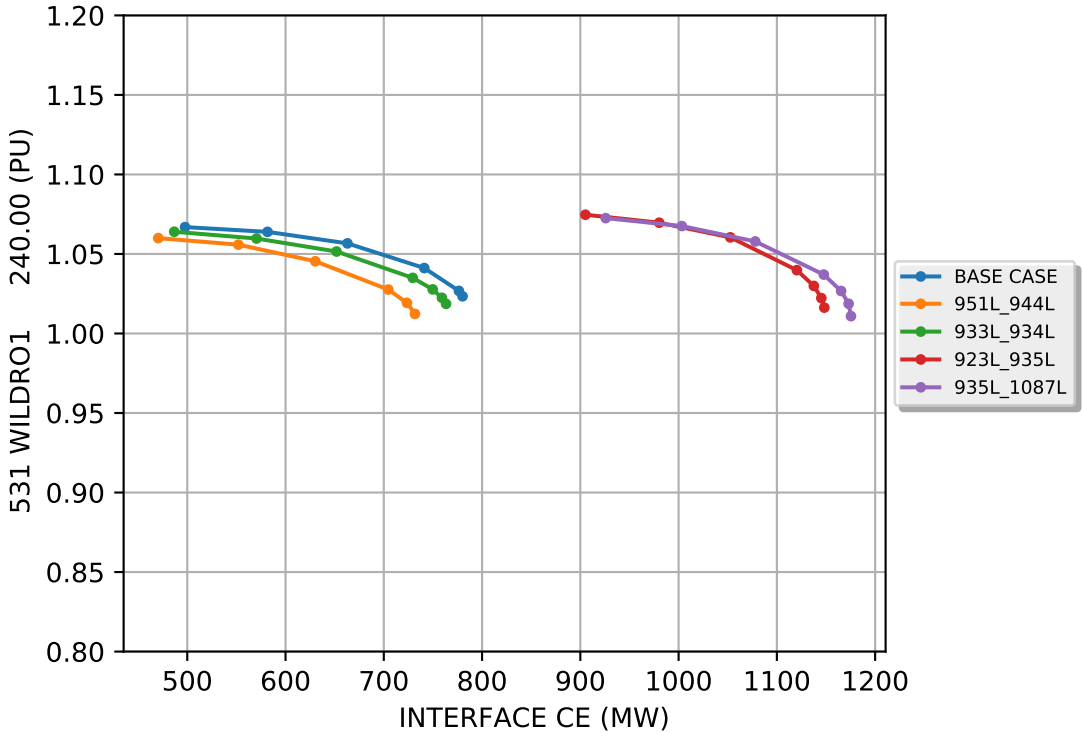


Figure: E-4-3

Case: H5, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 26.9%

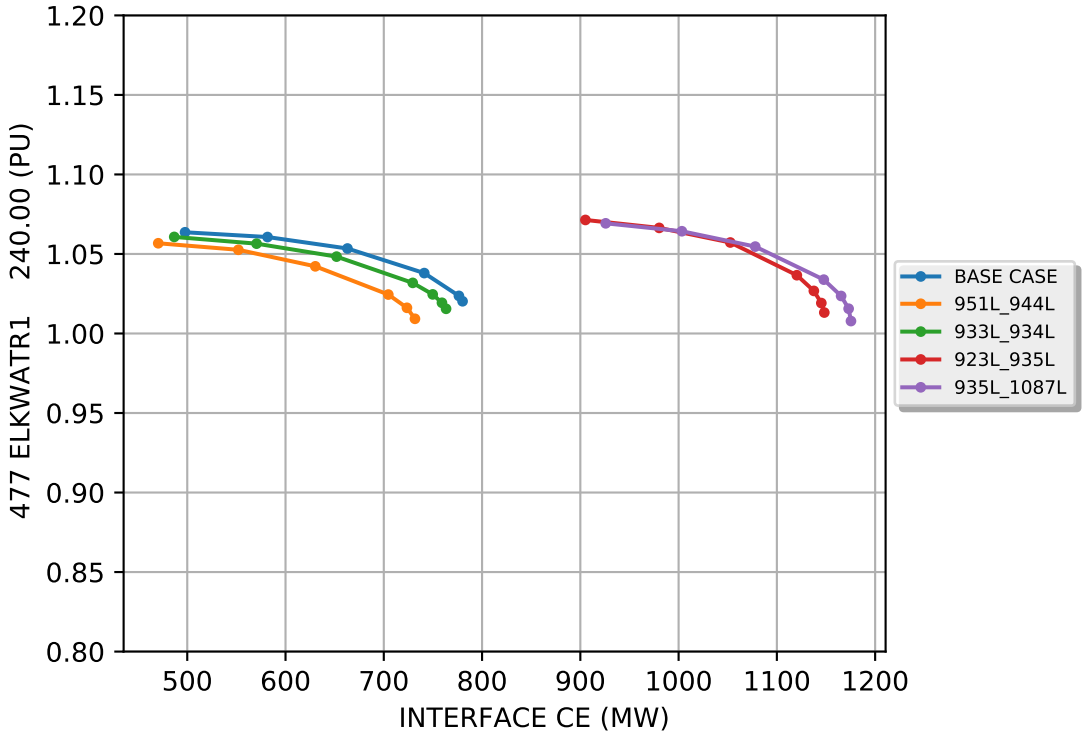


Figure: E-4-4

Case: H5, Option: PRE

Min Voltage: 0.98 PU, Min Margin: 26.9%

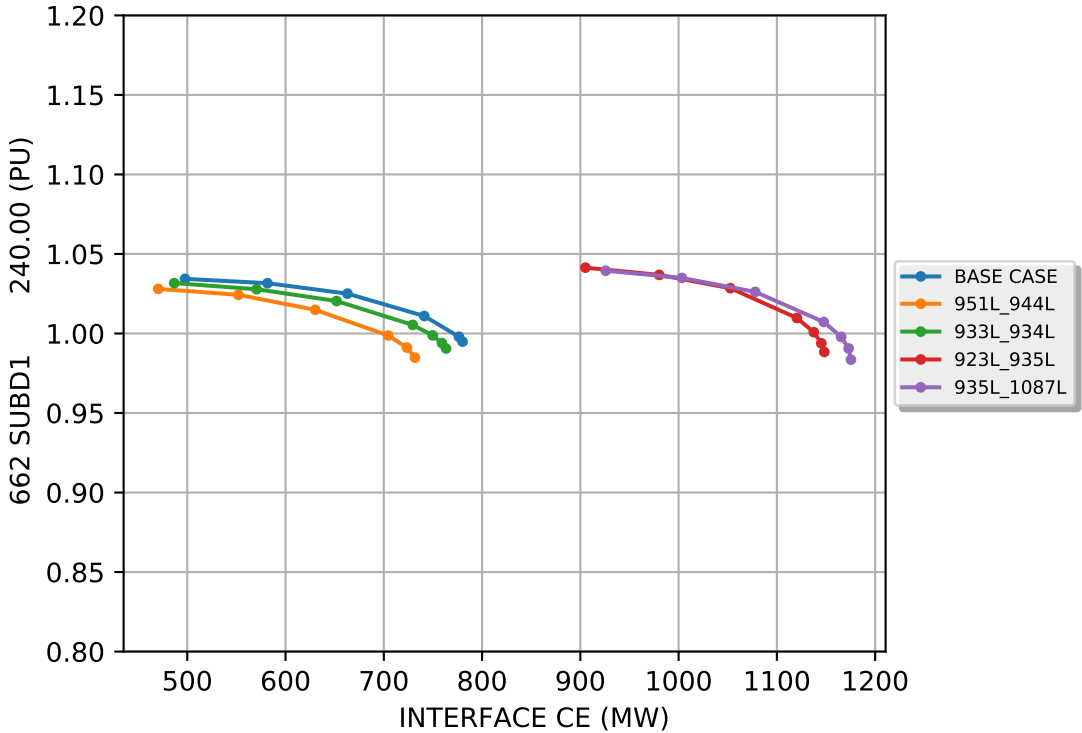


Figure: E-4-5

Case: H5, Option: PRE

Min Voltage: 0.98 PU, Min Margin: 26.9%

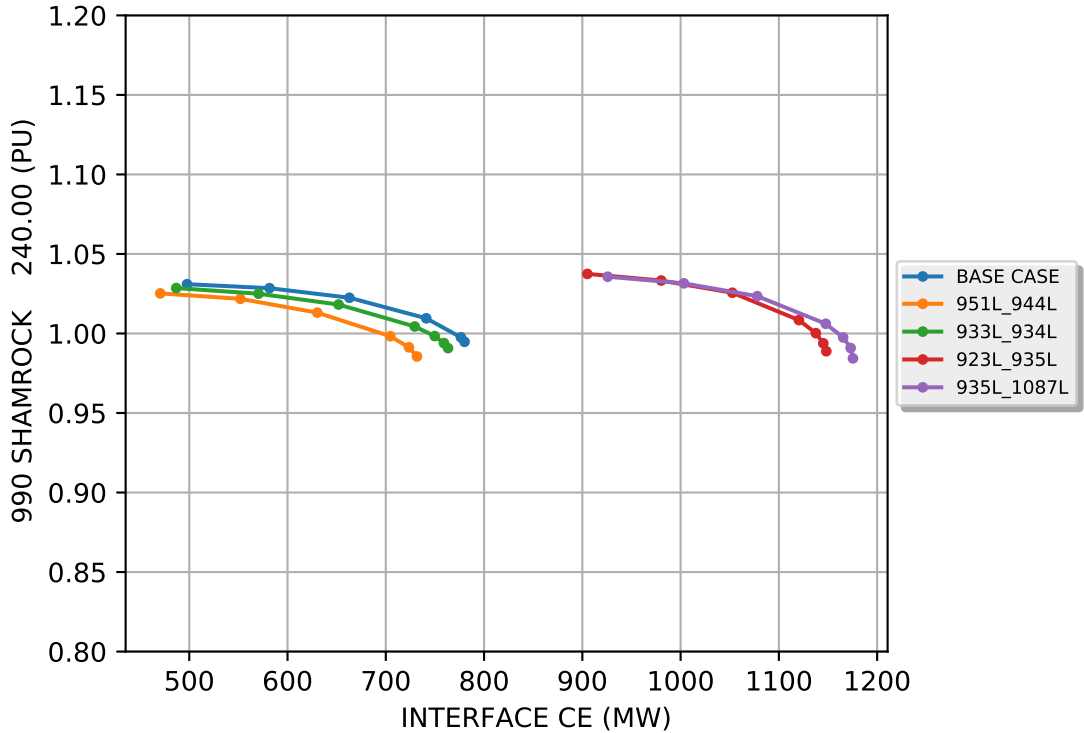


Figure: E-4-6

Case: H5, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 26.9%

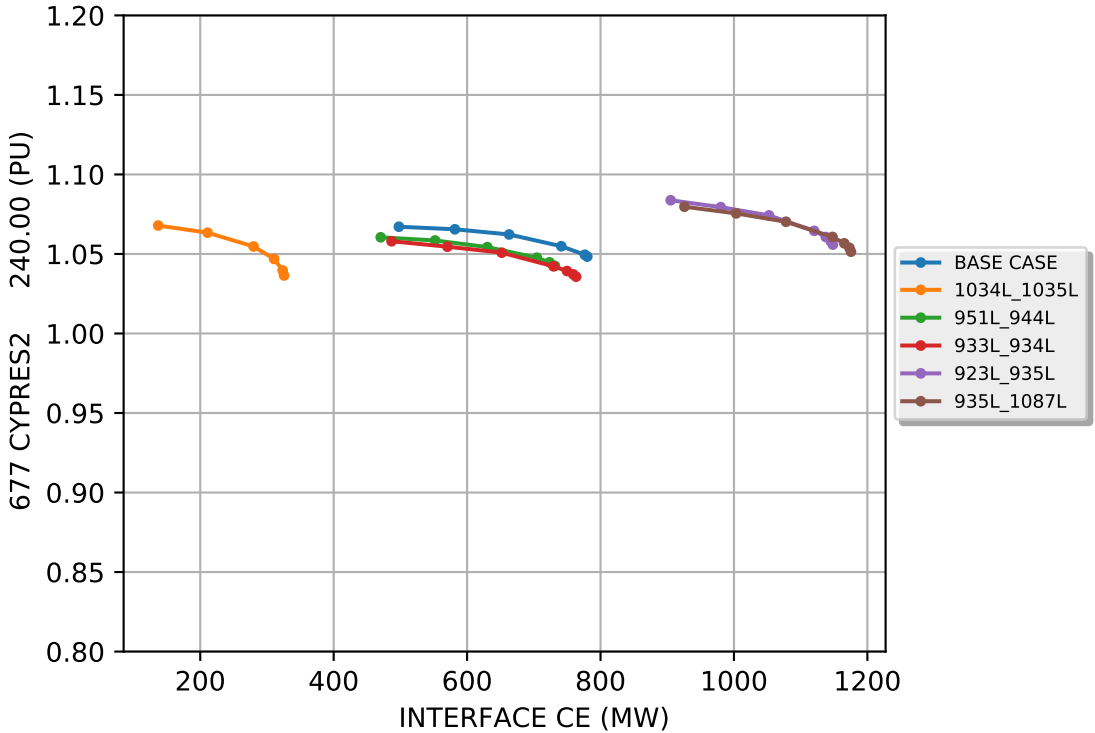


Figure: E-4-7

Case: H5, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 26.9%

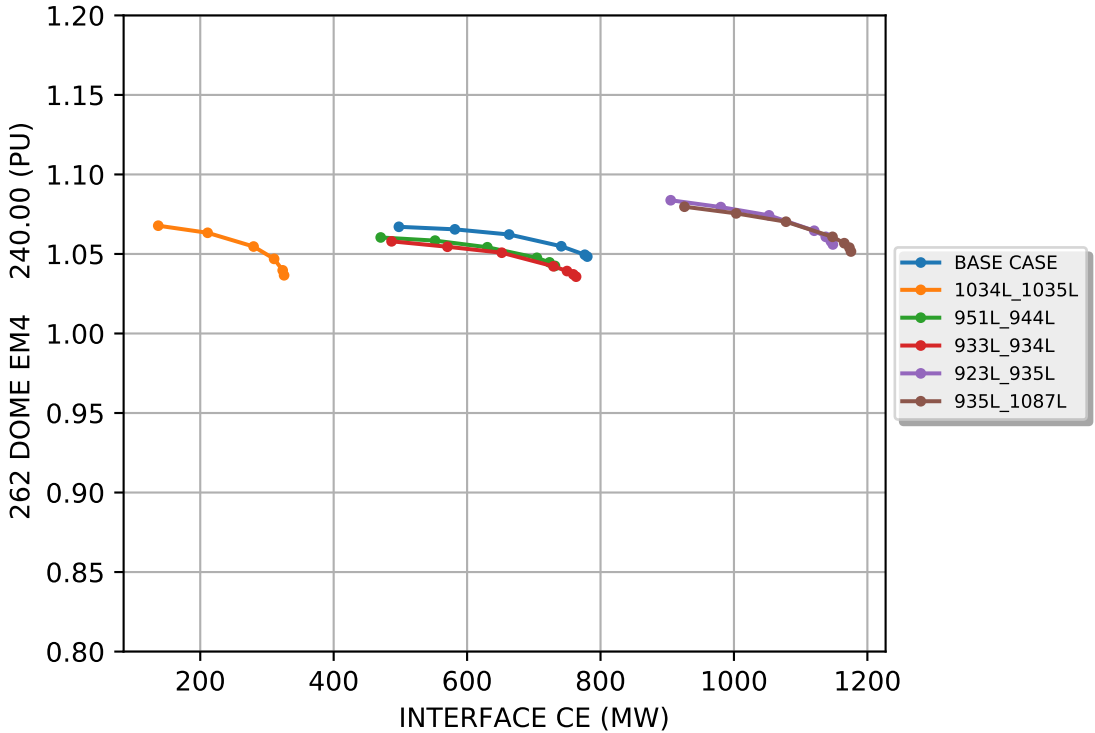


Figure: E-4-8

Case: H5, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 26.9%

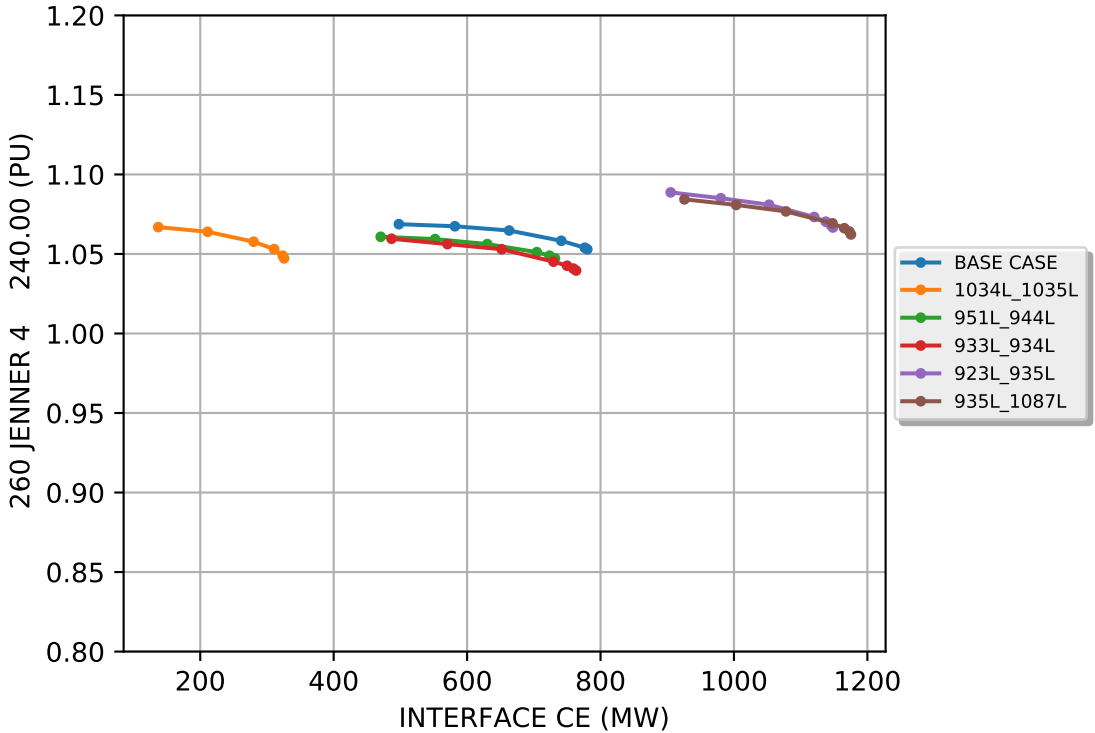


Figure: E-4-9

Case: H5, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 26.9%

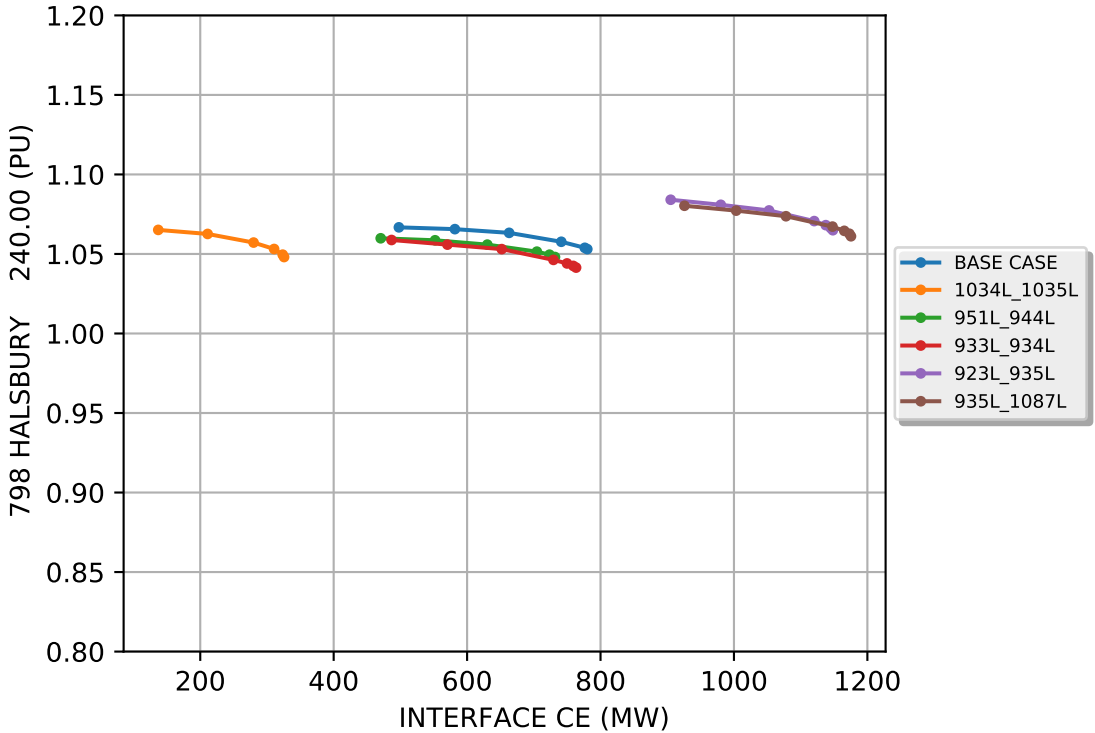


Figure: E-4-10

Case: H7, Option: PRE

Min Voltage: 0.98 PU, Min Margin: 55.9%

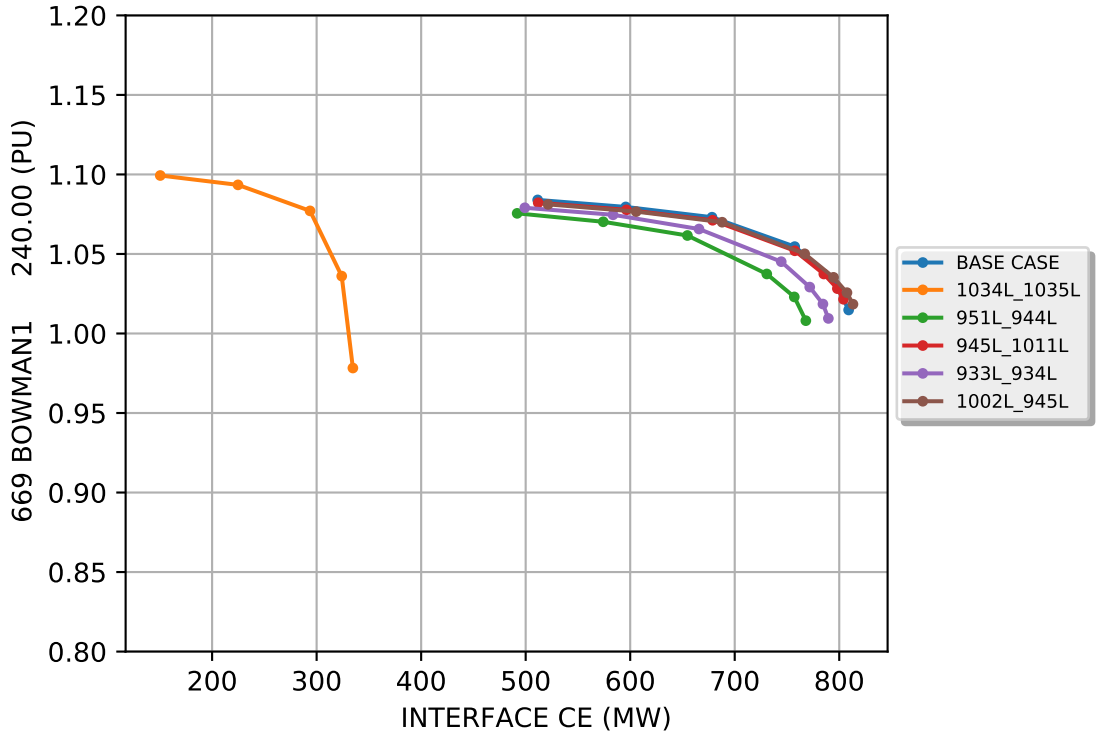


Figure: E-4-11

Case: H7, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 55.9%

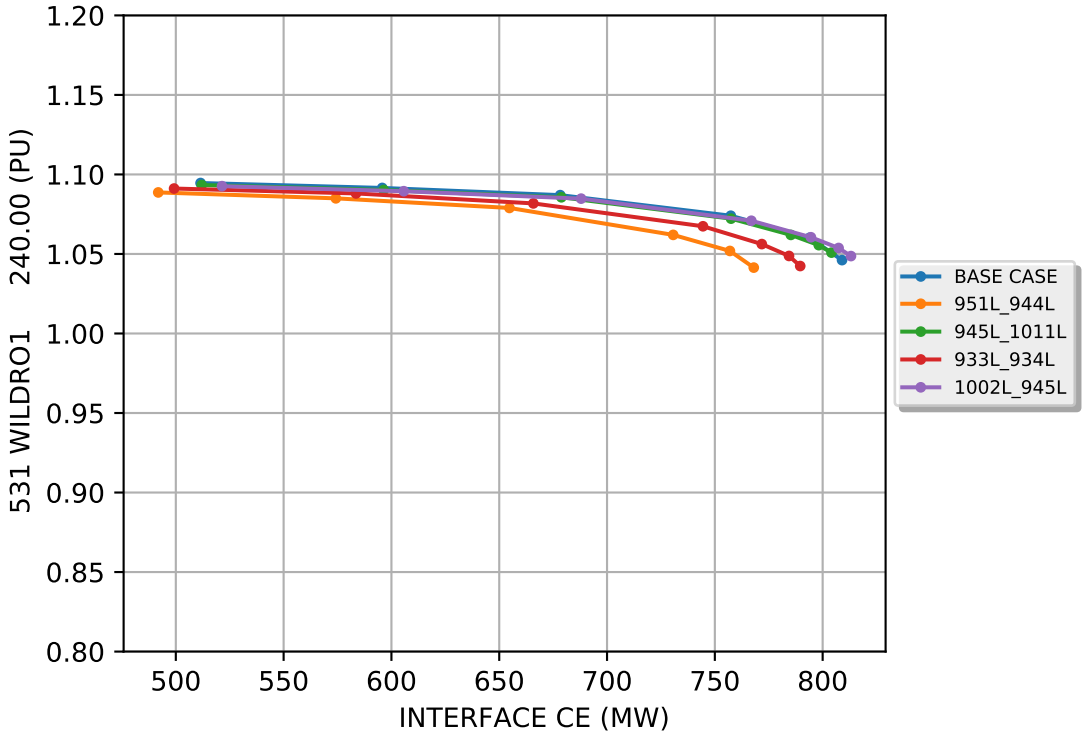


Figure: E-4-12

Case: H7, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 55.9%

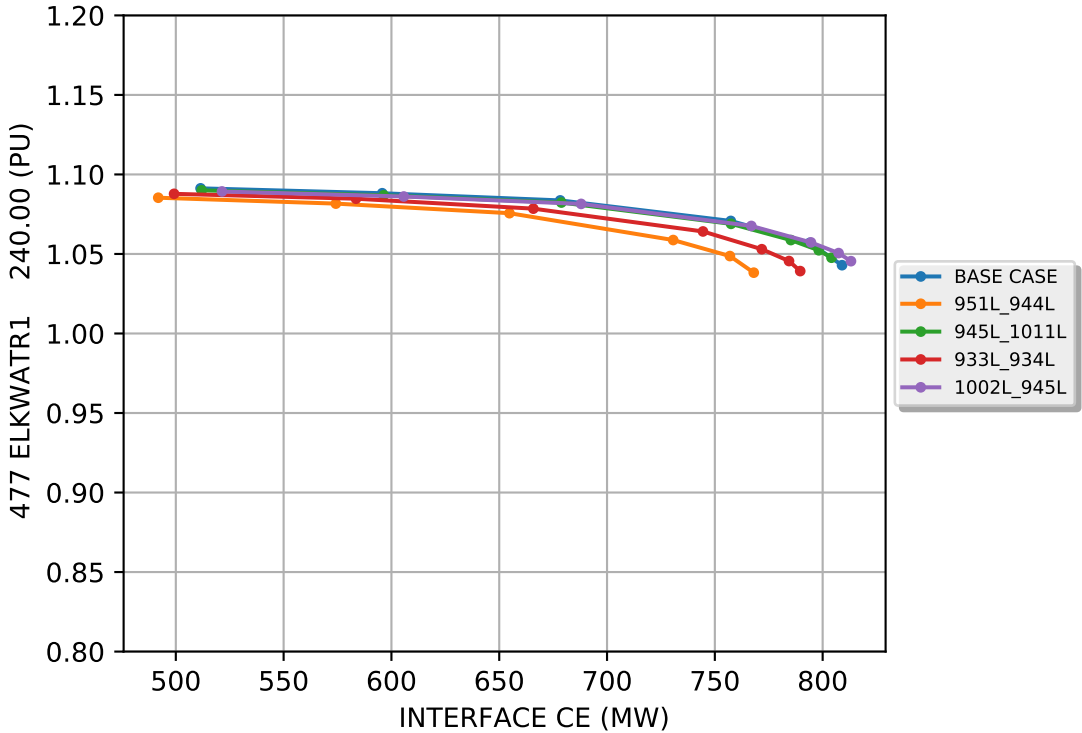


Figure: E-4-13

Case: H7, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 55.9%

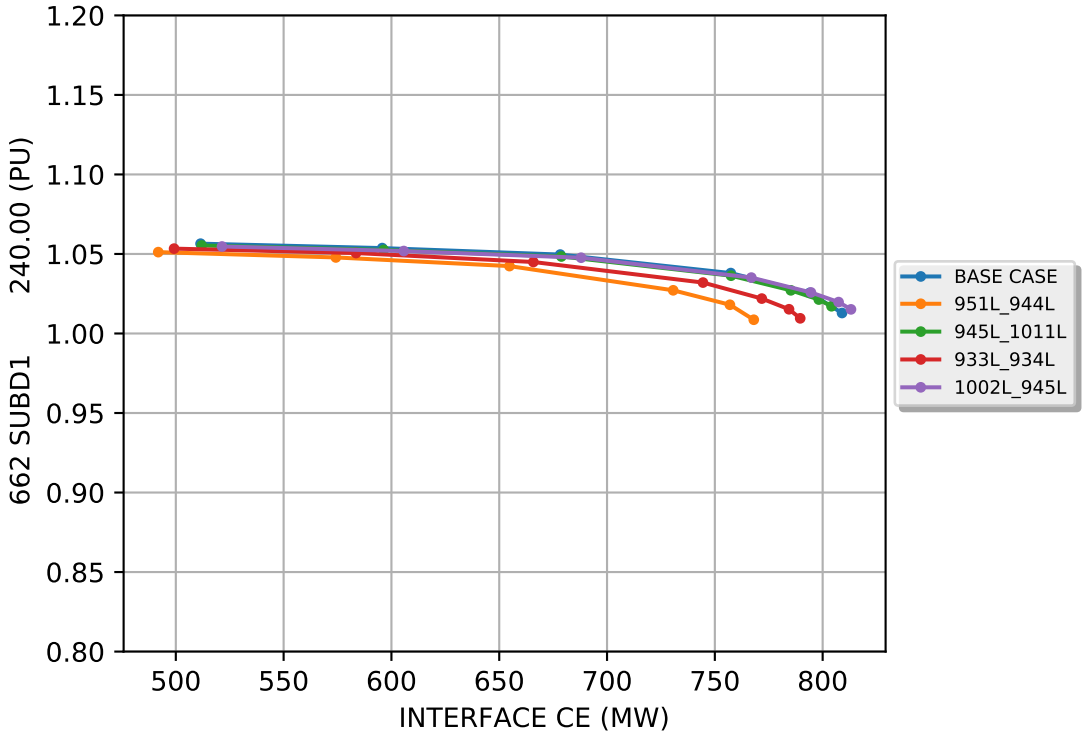


Figure: E-4-14

Case: H7, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 55.9%

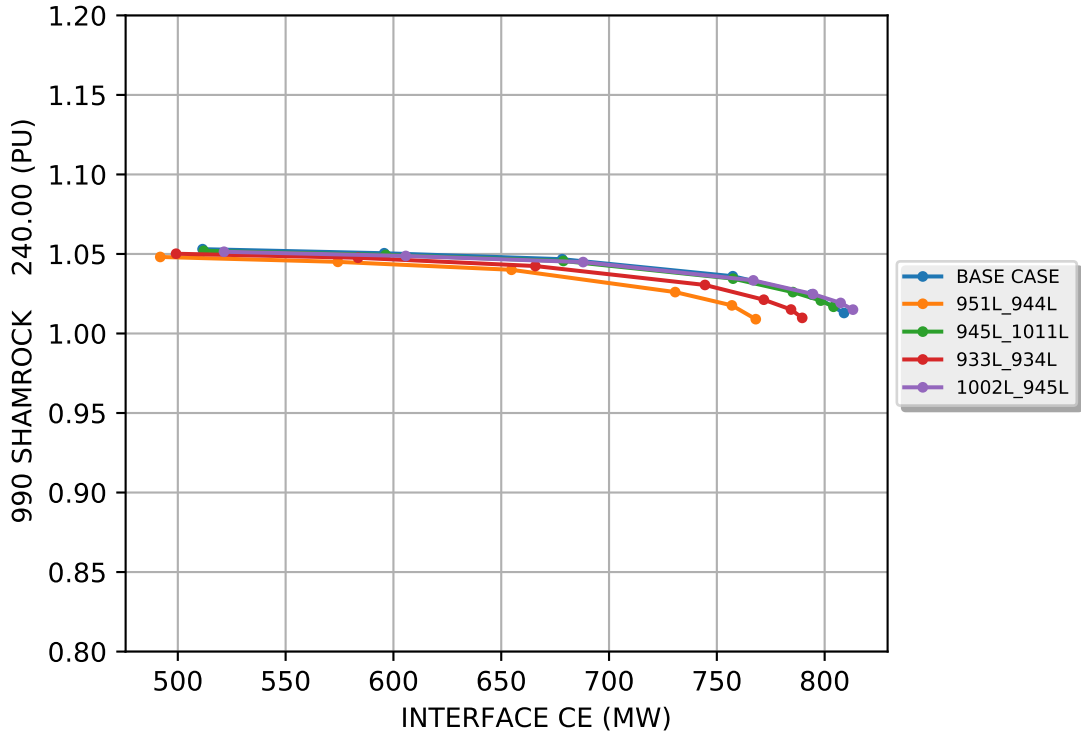


Figure: E-4-15

Case: H7, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 55.9%

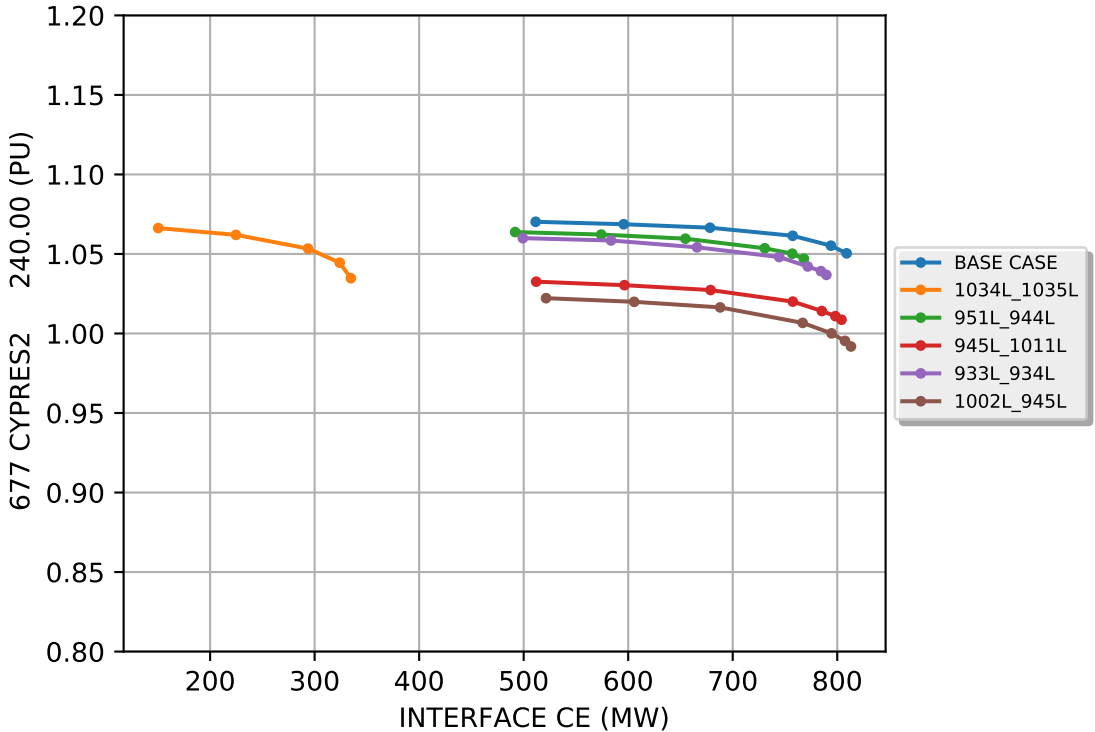


Figure: E-4-16

Case: H7, Option: PRE

Min Voltage: 1.03 PU, Min Margin: 55.9%

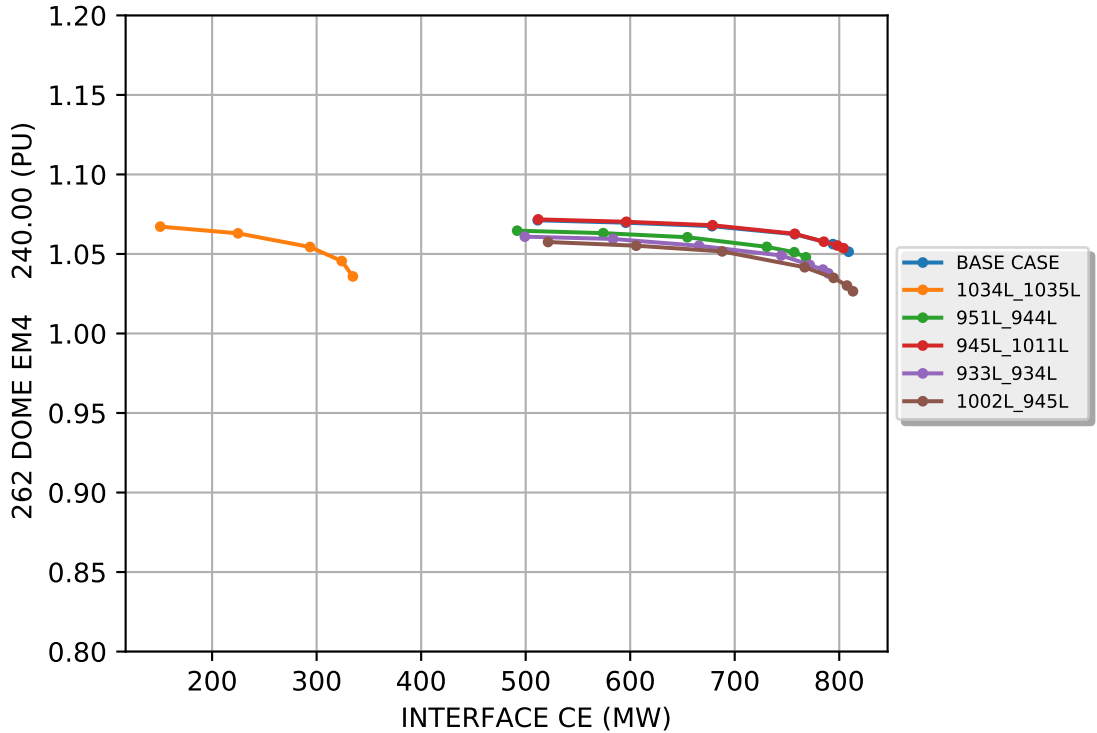


Figure: E-4-17

Case: H7, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 55.9%

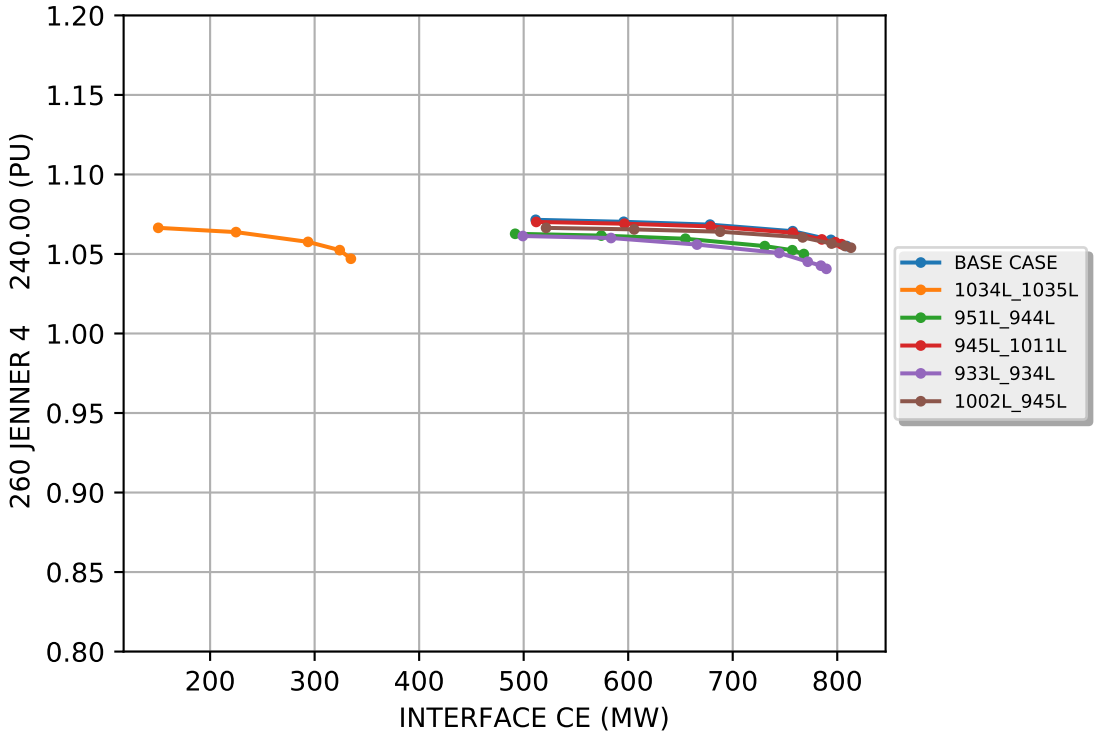


Figure: E-4-18

Case: H7, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 55.9%

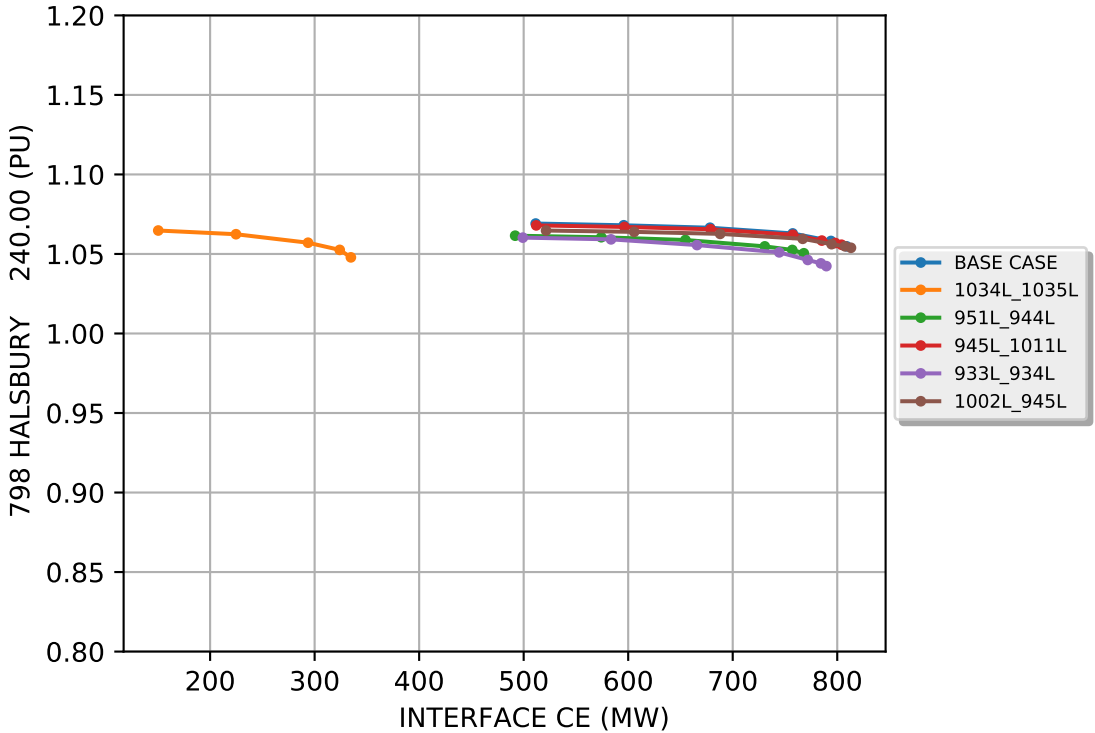


Figure: E-4-19

Case: H4, Option: PRE

Min Voltage: 0.98 PU, Min Margin: 34.1%

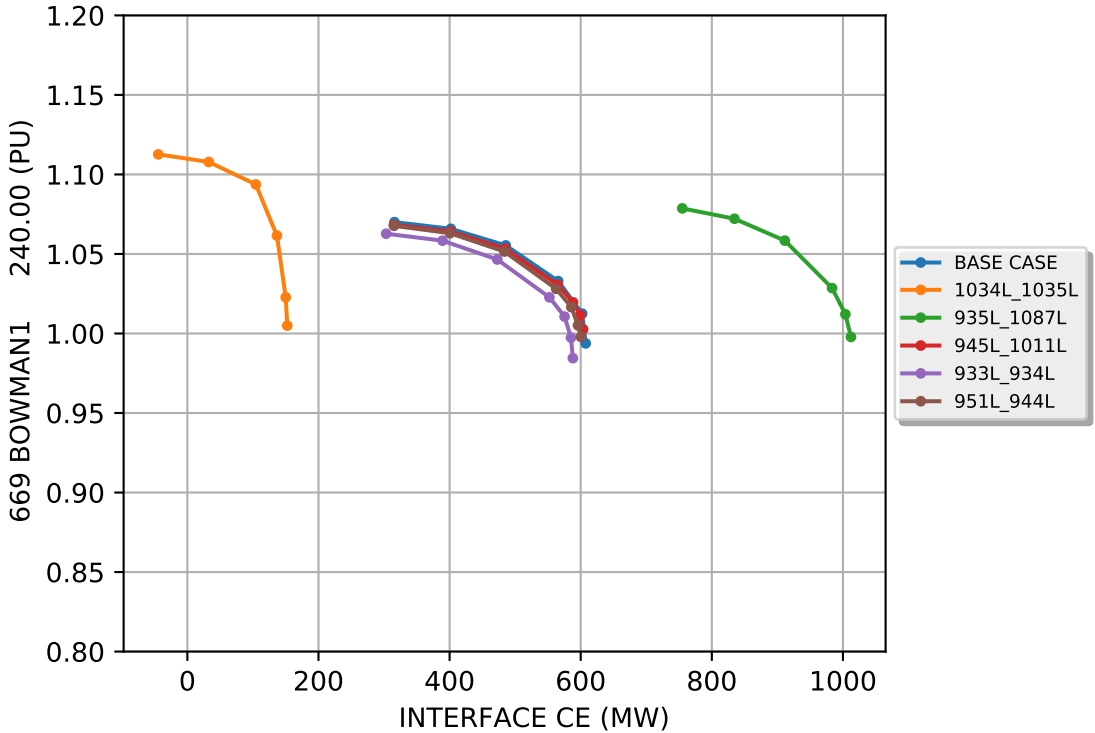


Figure: E-4-20

Case: H4, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 34.1%

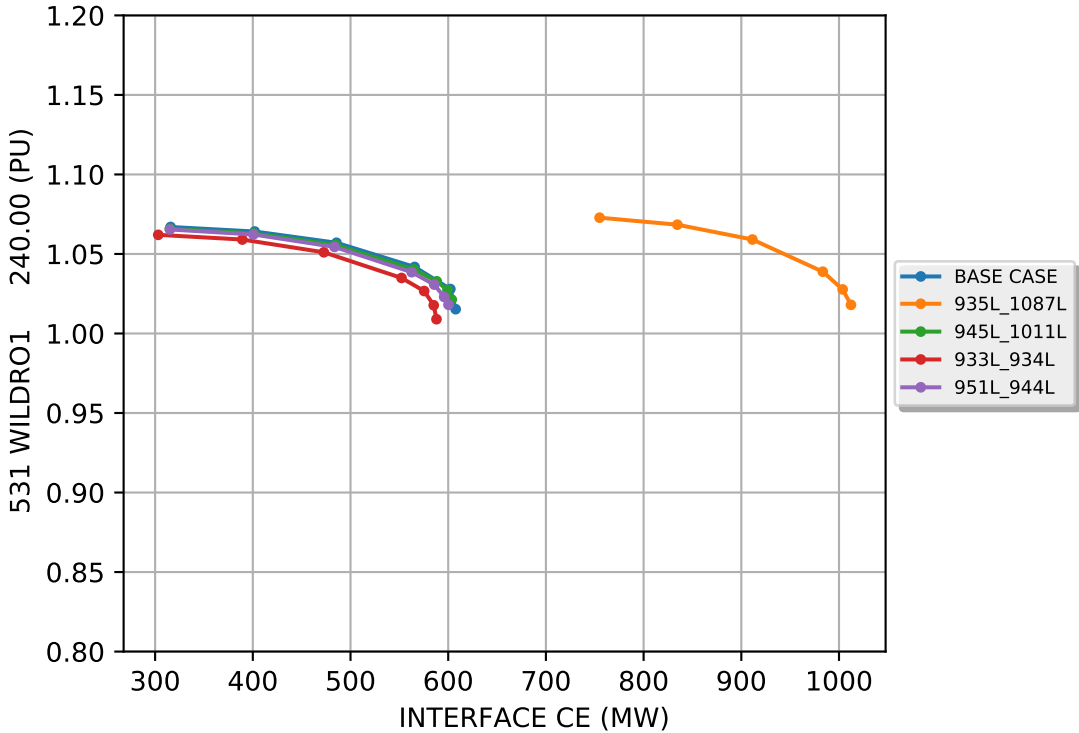


Figure: E-4-21

Case: H4, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 34.1%

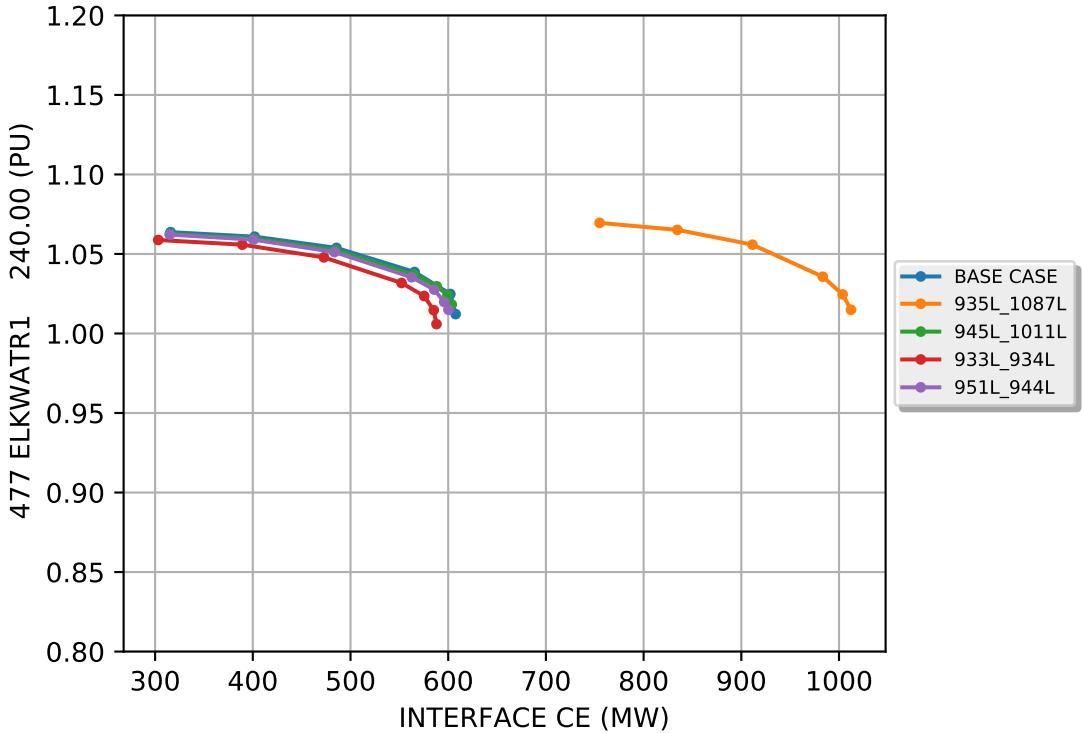


Figure: E-4-22

Case: H4, Option: PRE

Min Voltage: 0.98 PU, Min Margin: 34.1%

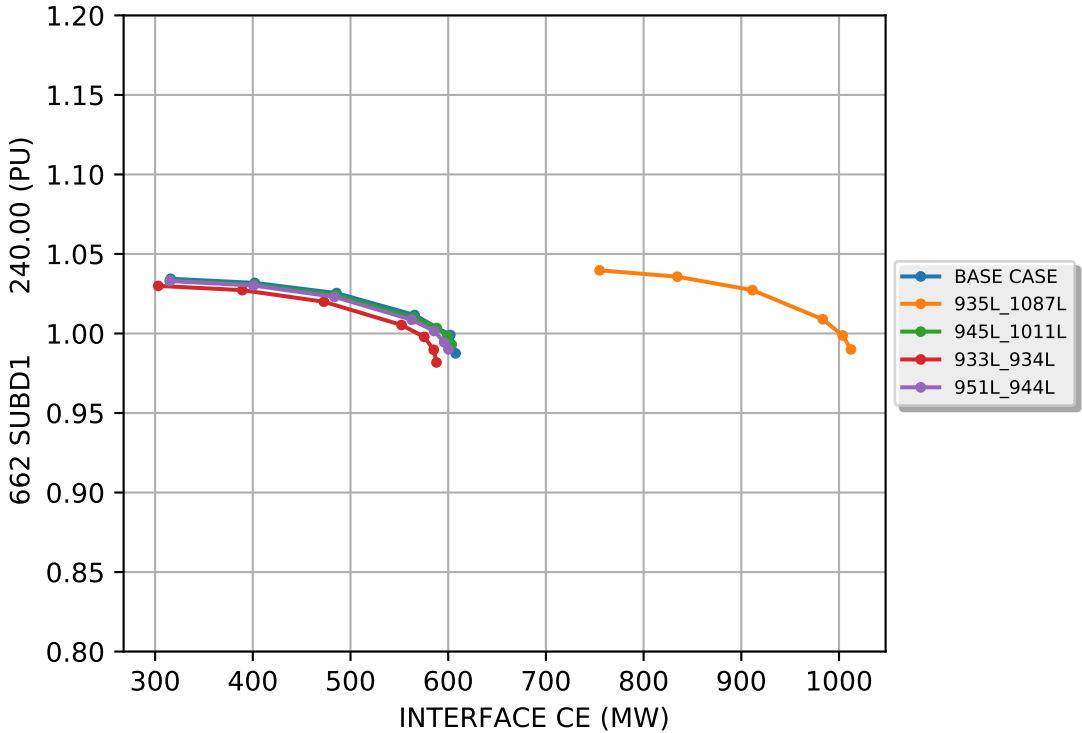


Figure: E-4-23

Case: H4, Option: PRE

Min Voltage: 0.98 PU, Min Margin: 34.1%

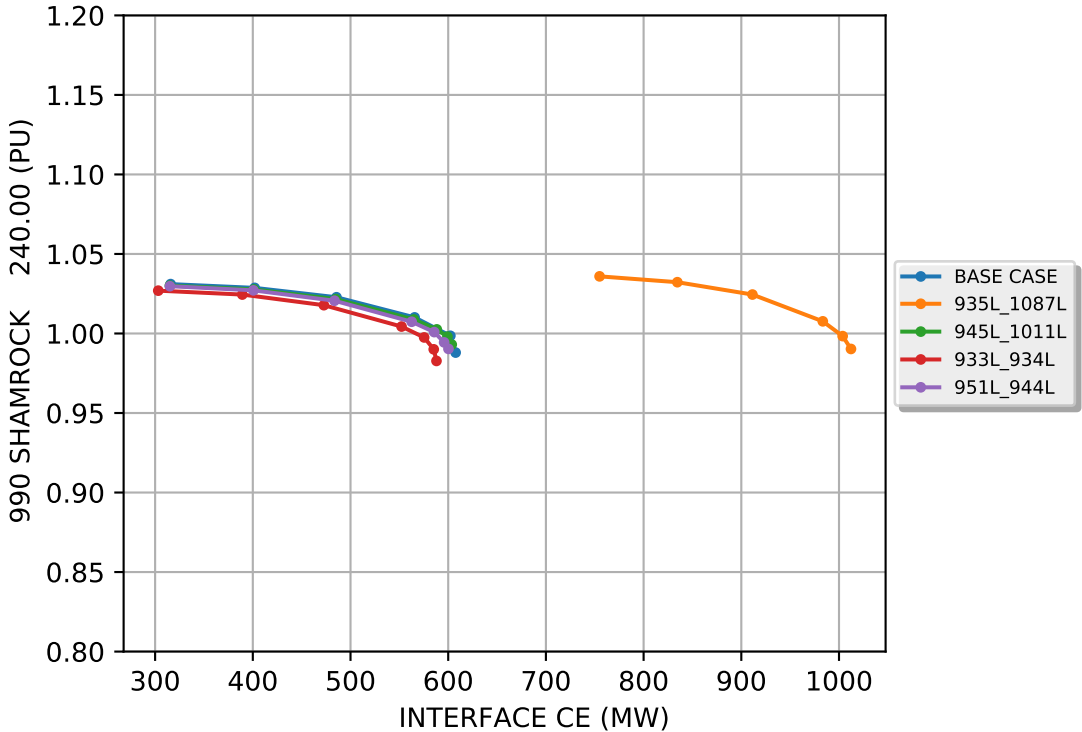


Figure: E-4-24

Case: H4, Option: PRE

Min Voltage: 0.98 PU, Min Margin: 34.1%

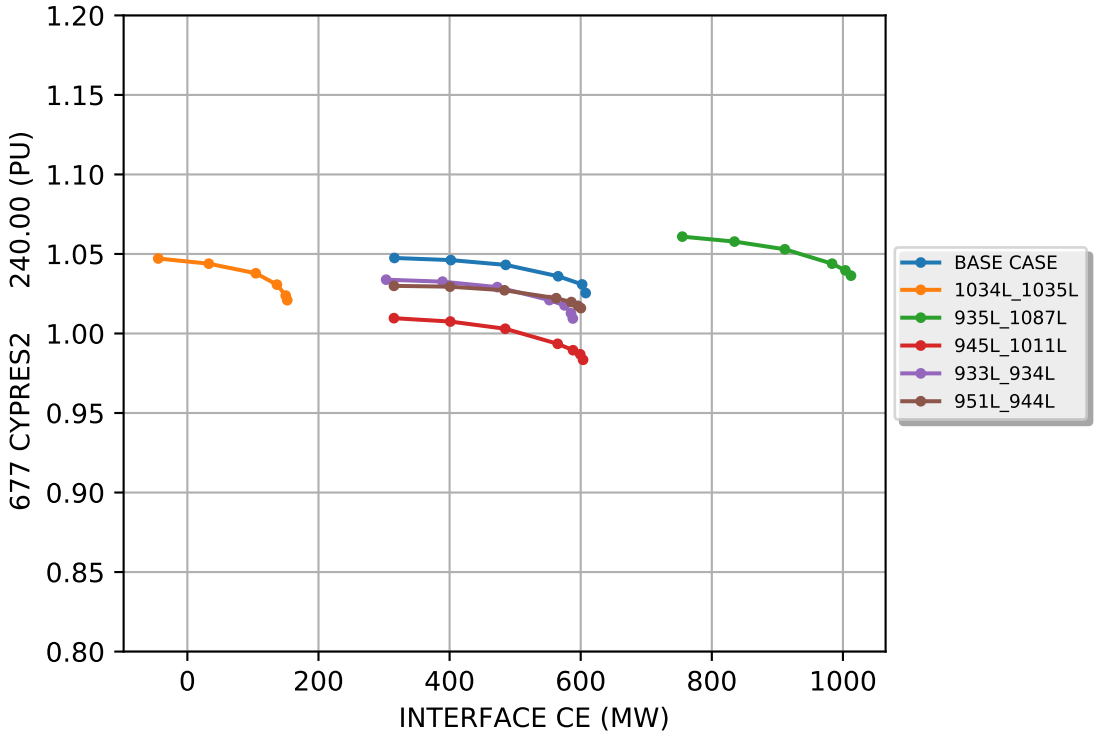


Figure: E-4-25

Case: H4, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 34.1%

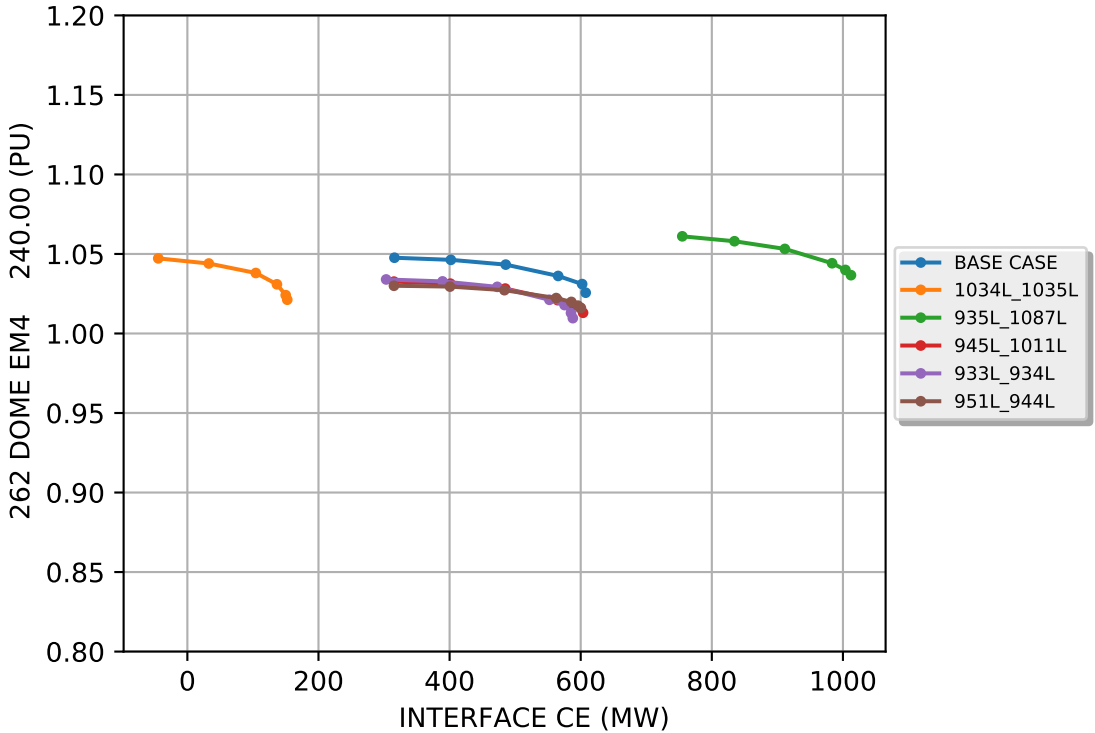


Figure: E-4-26

Case: H4, Option: PRE

Min Voltage: 1.02 PU, Min Margin: 34.1%

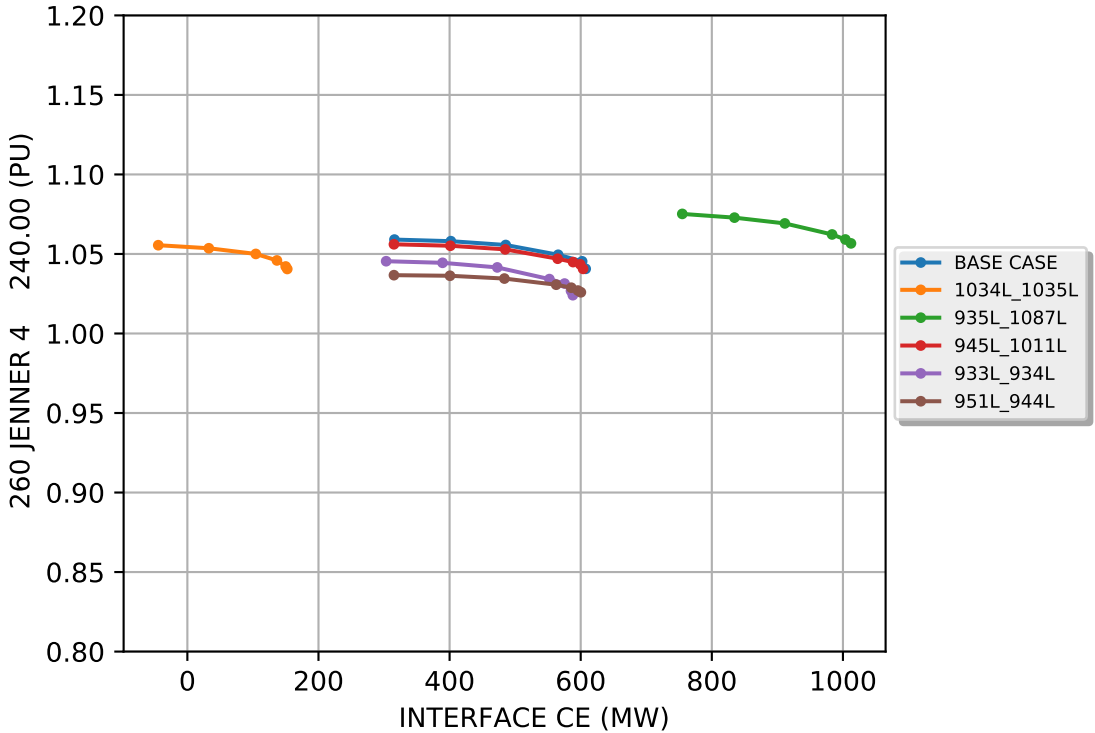


Figure: E-4-27

Case: H4, Option: PRE

Min Voltage: 1.03 PU, Min Margin: 34.1%

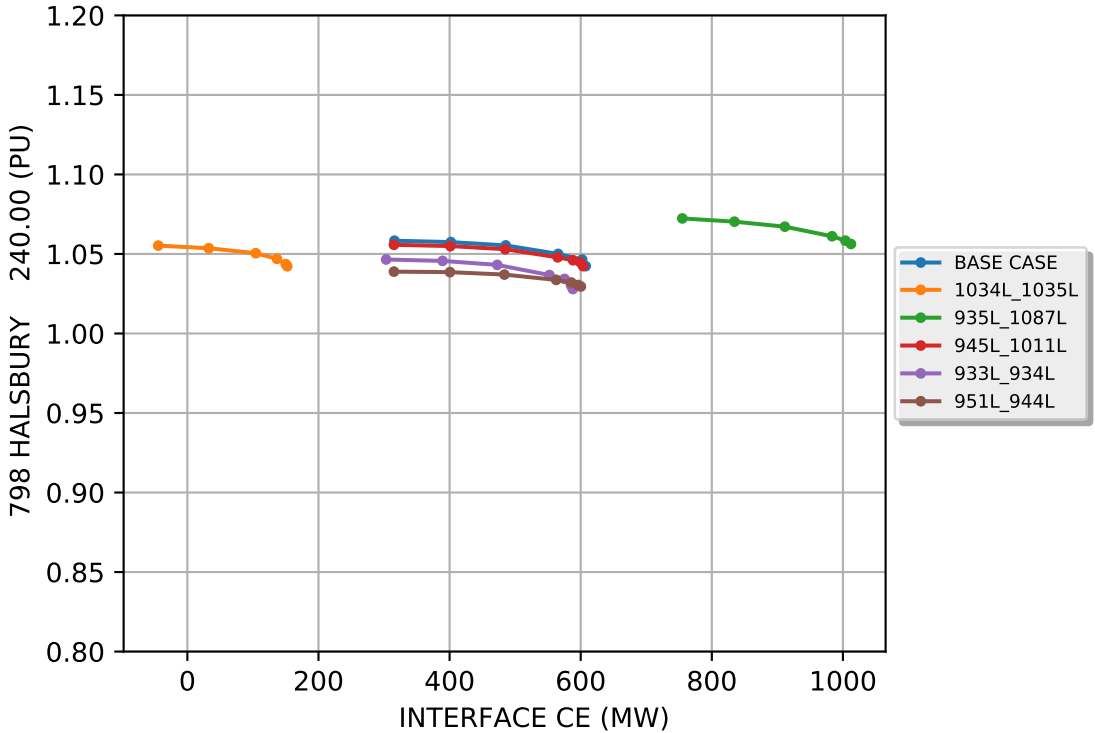


Figure: E-4-28

Case: H8, Option: PRE

Min Voltage: 1.00 PU, Min Margin: 27.2%

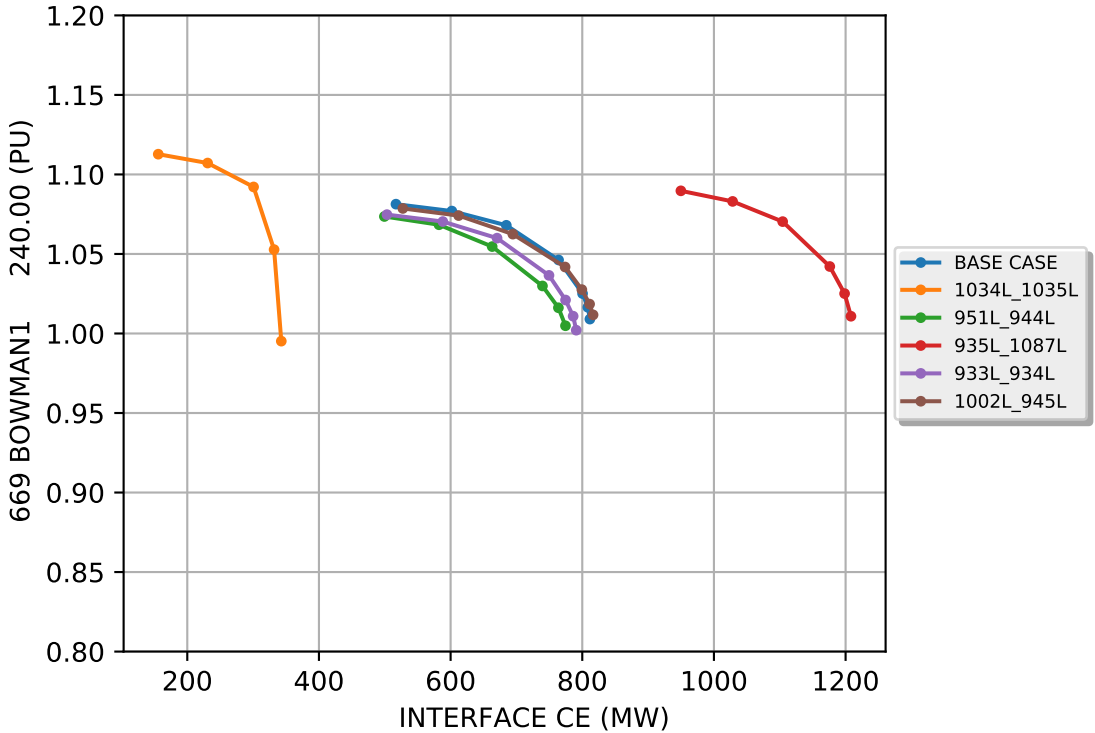


Figure: E-4-29

Case: H8, Option: PRE

Min Voltage: 1.03 PU, Min Margin: 27.2%

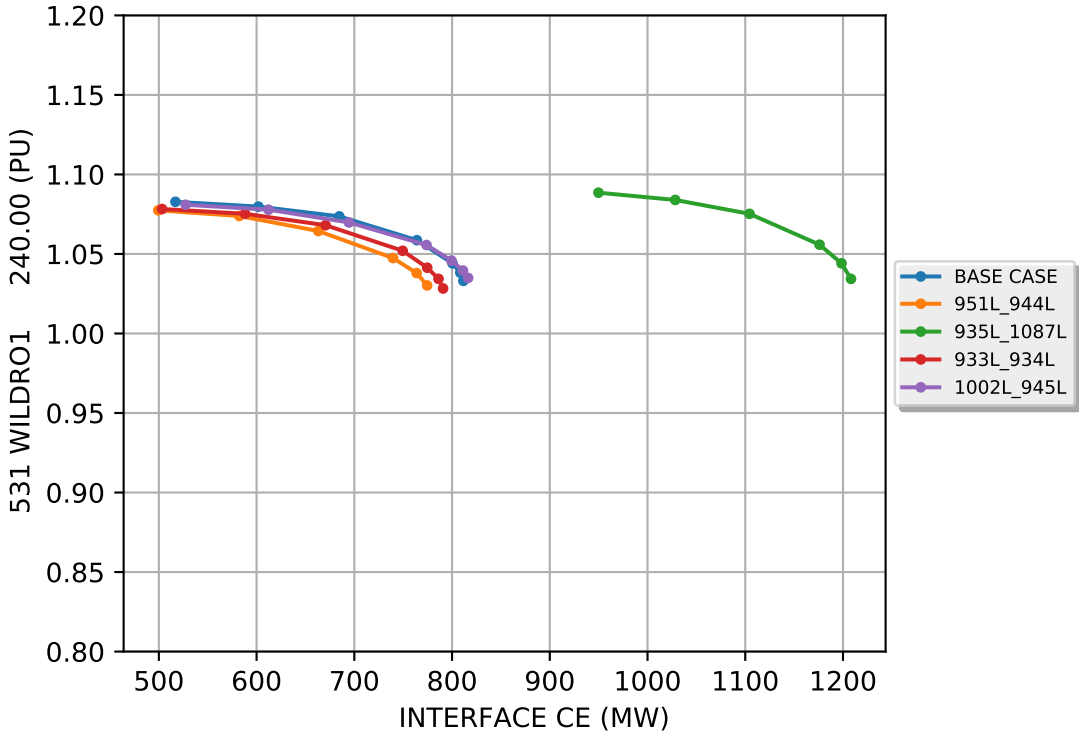


Figure: E-4-30

Case: H8, Option: PRE

Min Voltage: 1.03 PU, Min Margin: 27.2%

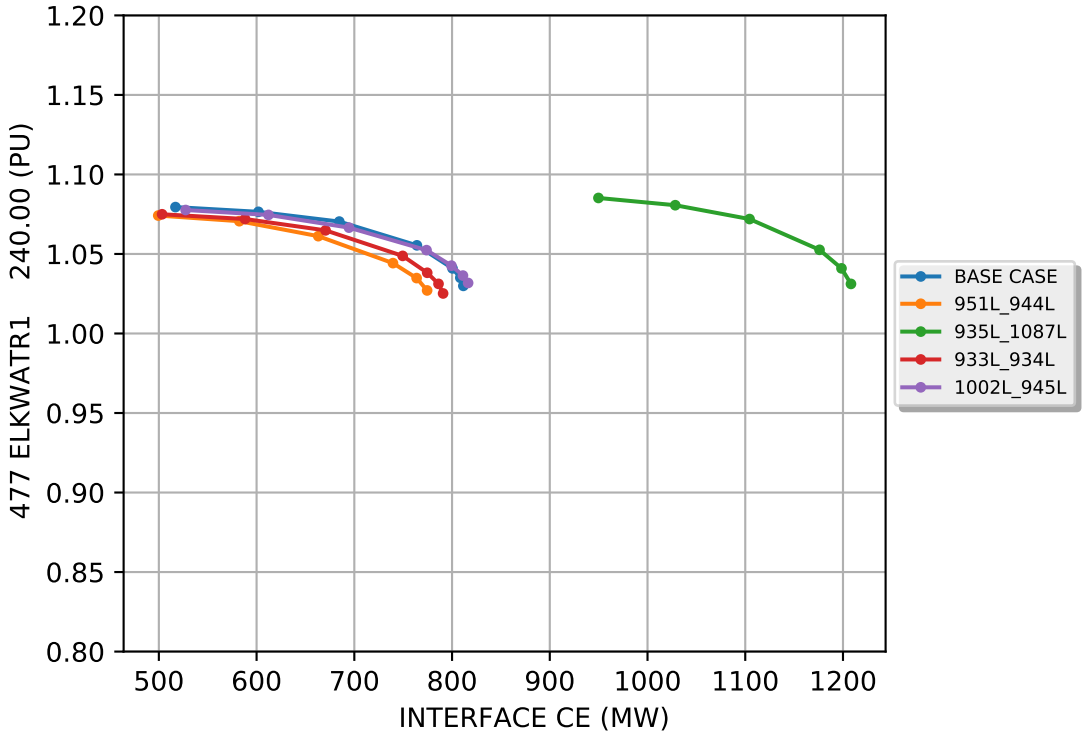


Figure: E-4-31

Case: H8, Option: PRE

Min Voltage: 1.00 PU, Min Margin: 27.2%

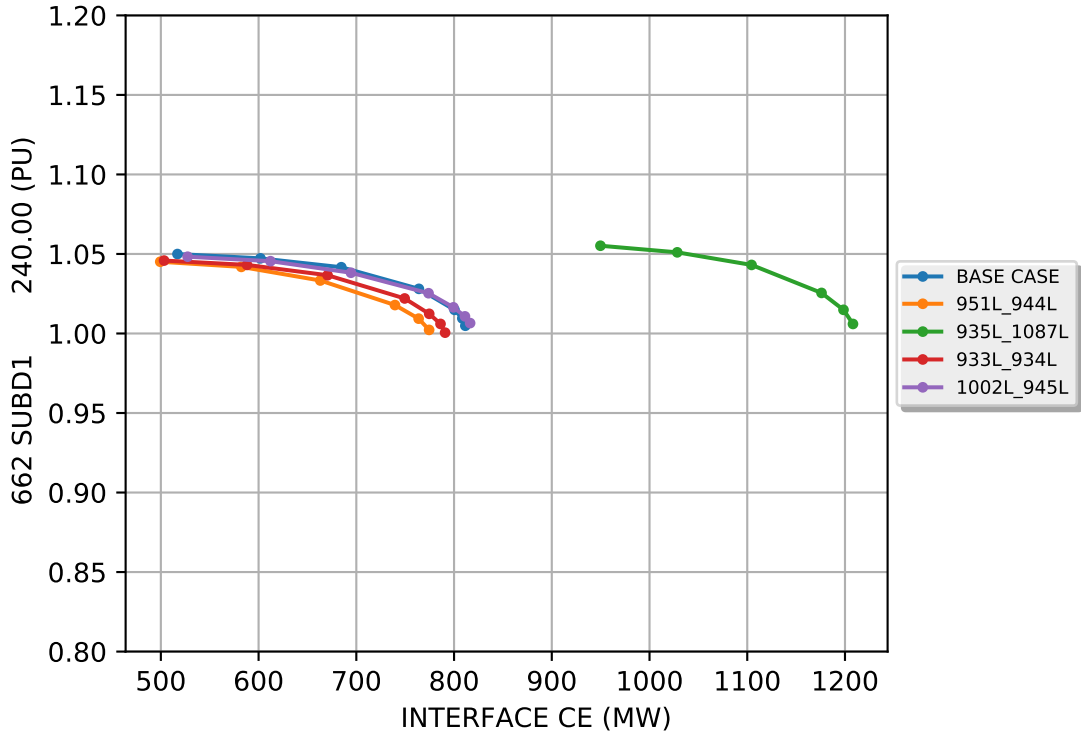


Figure: E-4-32

Case: H8, Option: PRE

Min Voltage: 1.00 PU, Min Margin: 27.2%

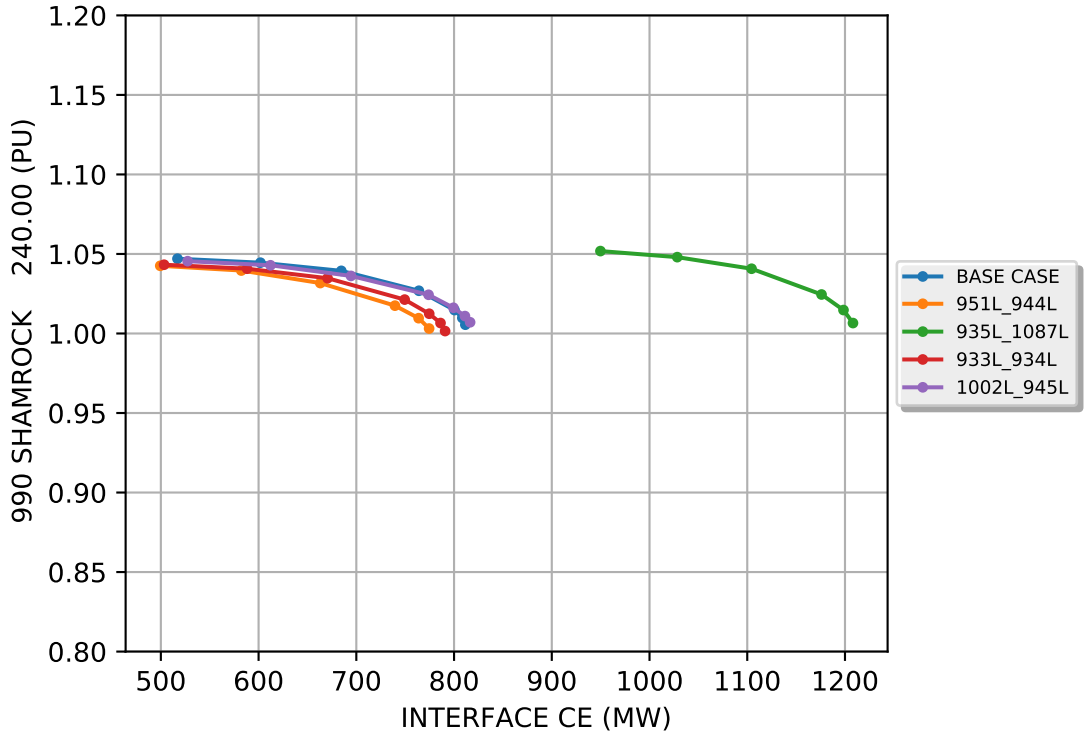


Figure: E-4-33

Case: H8, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 27.2%

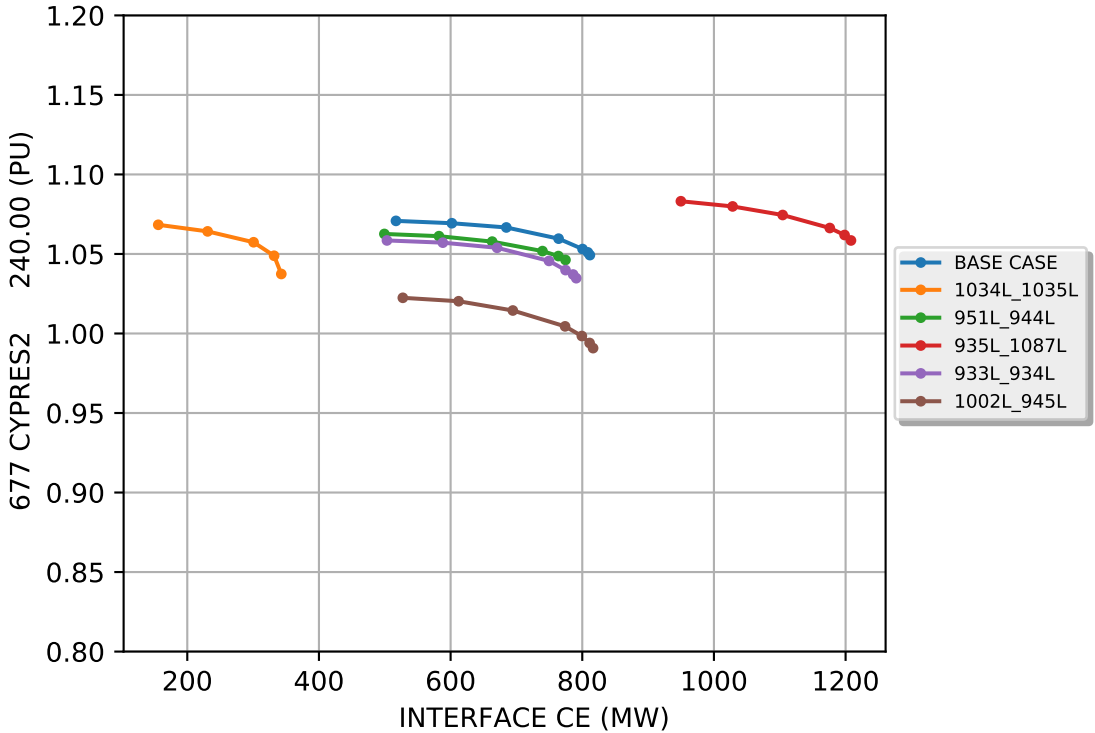


Figure: E-4-34

Case: H8, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 27.2%

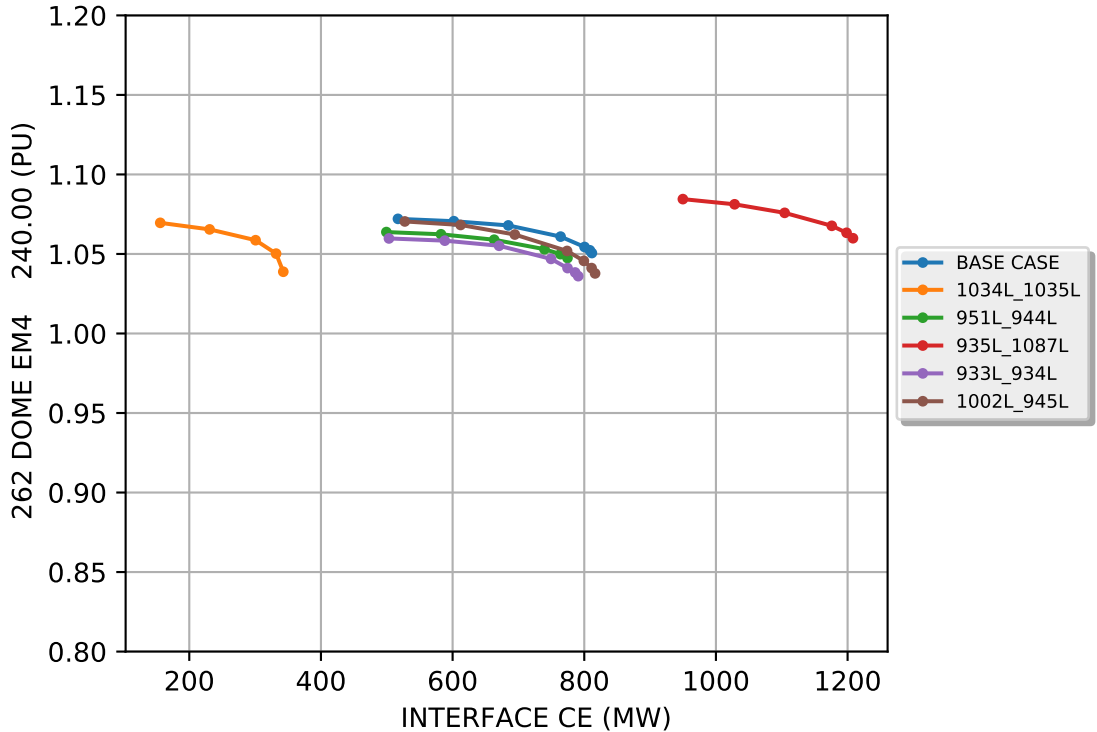


Figure: E-4-35

Case: H8, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 27.2%

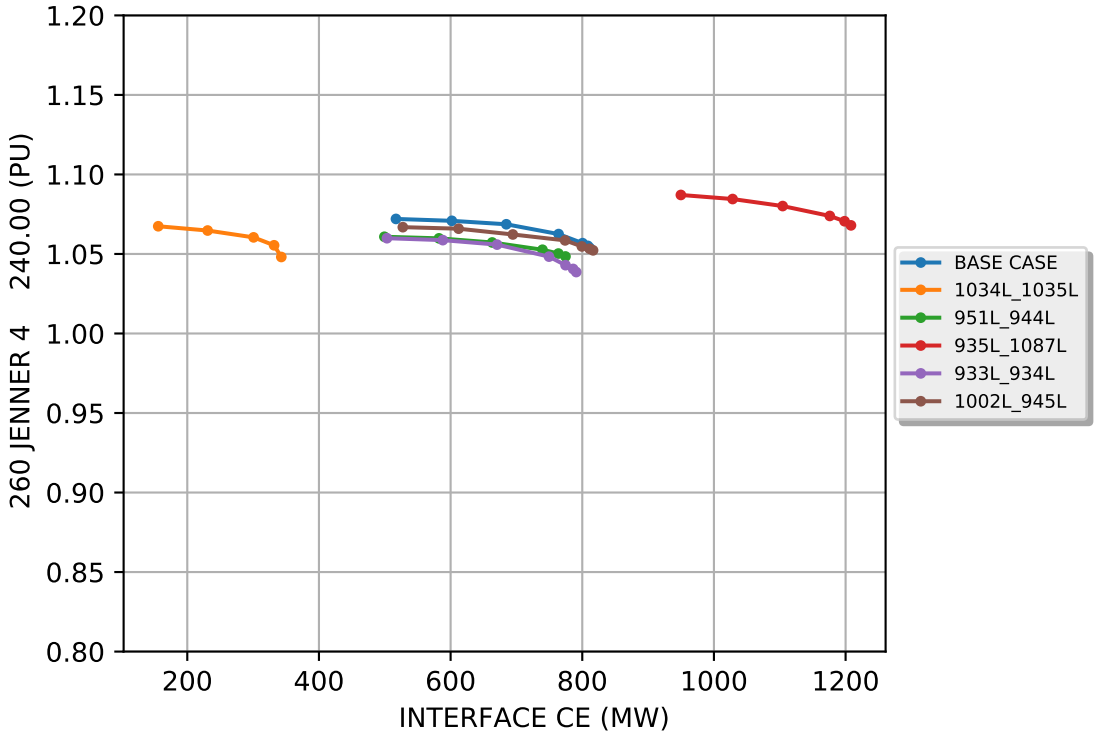


Figure: E-4-36

Case: H8, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 27.2%

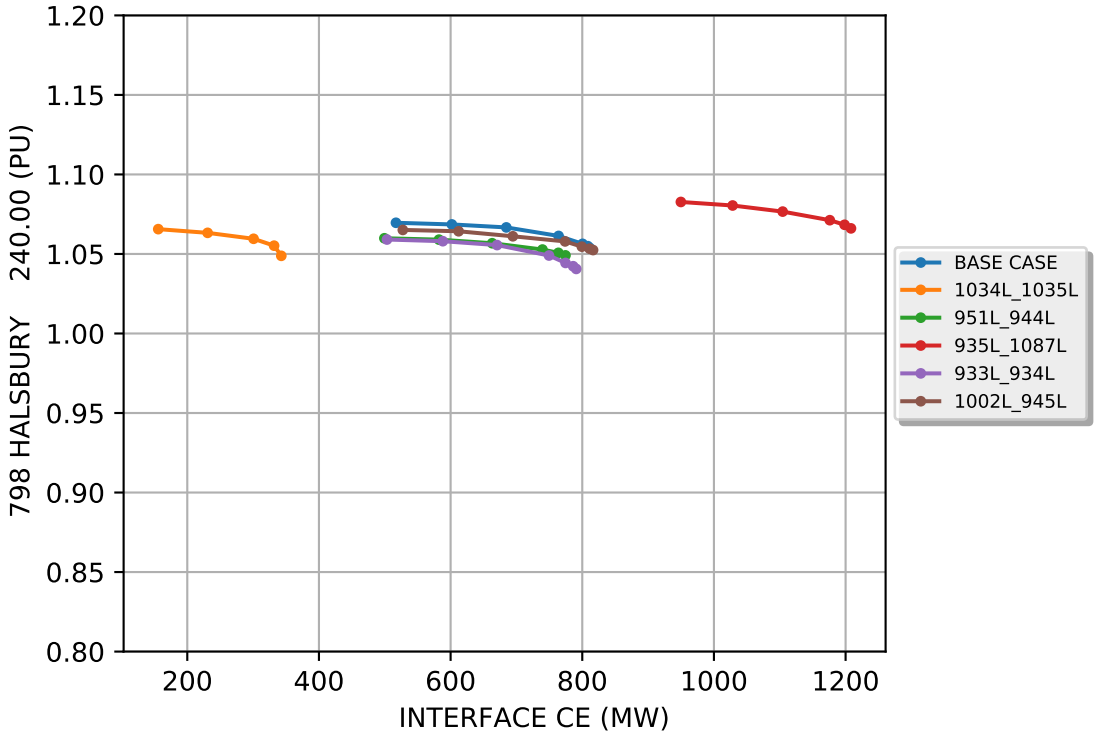


Figure: E-4-37

Case: H1, Option: PRE

Min Voltage: 0.92 PU, Min Margin: 35.0%

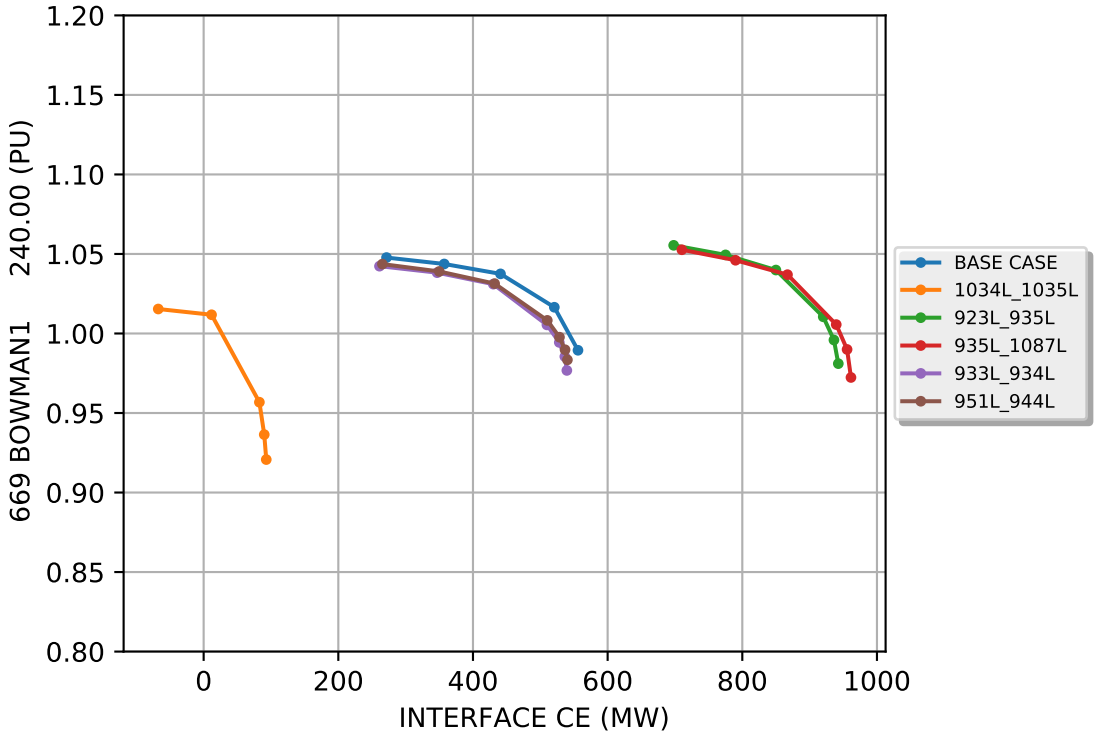


Figure: E-4-38

Case: H1, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 35.0%

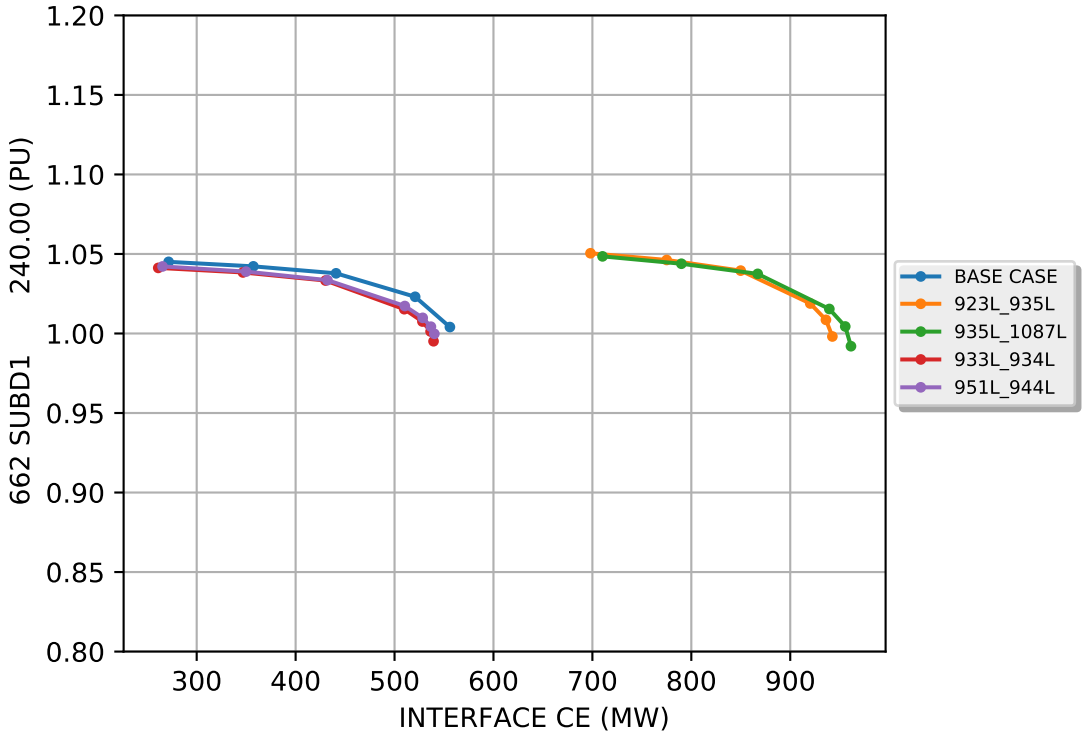


Figure: E-4-39

Case: H1, Option: PRE

Min Voltage: 1.00 PU, Min Margin: 35.0%

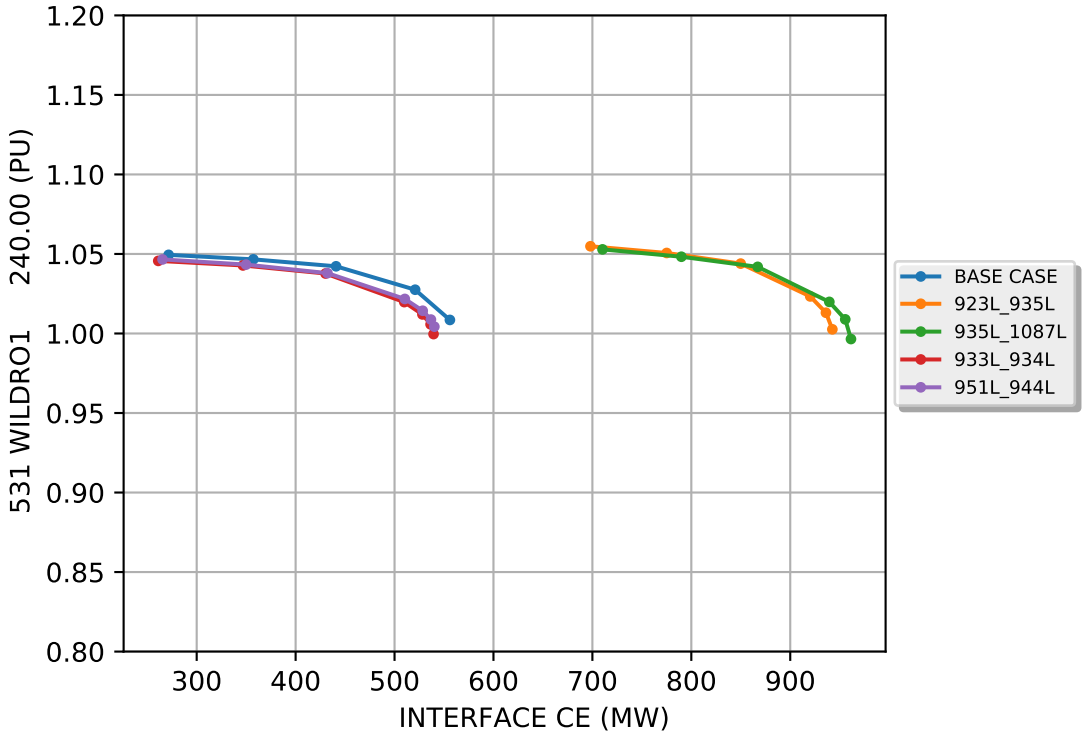


Figure: E-4-40

Case: H1, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 35.0%

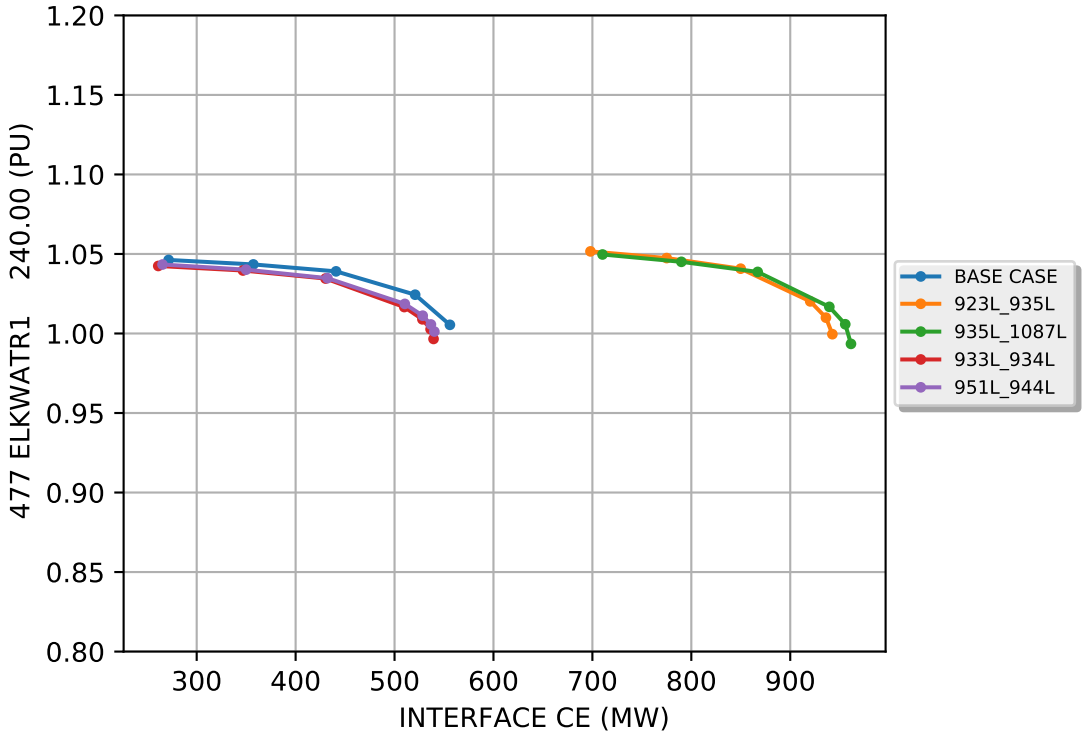


Figure: E-4-41

Case: H1, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 35.0%

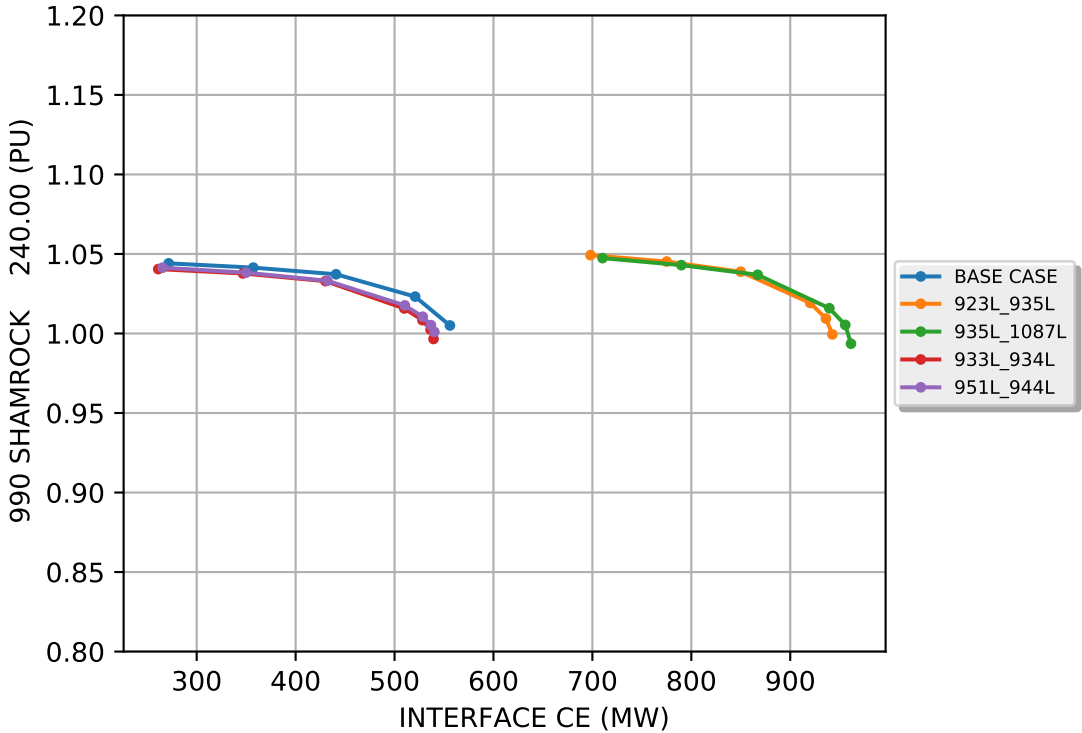


Figure: E-4-42

Case: H1, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 35.0%

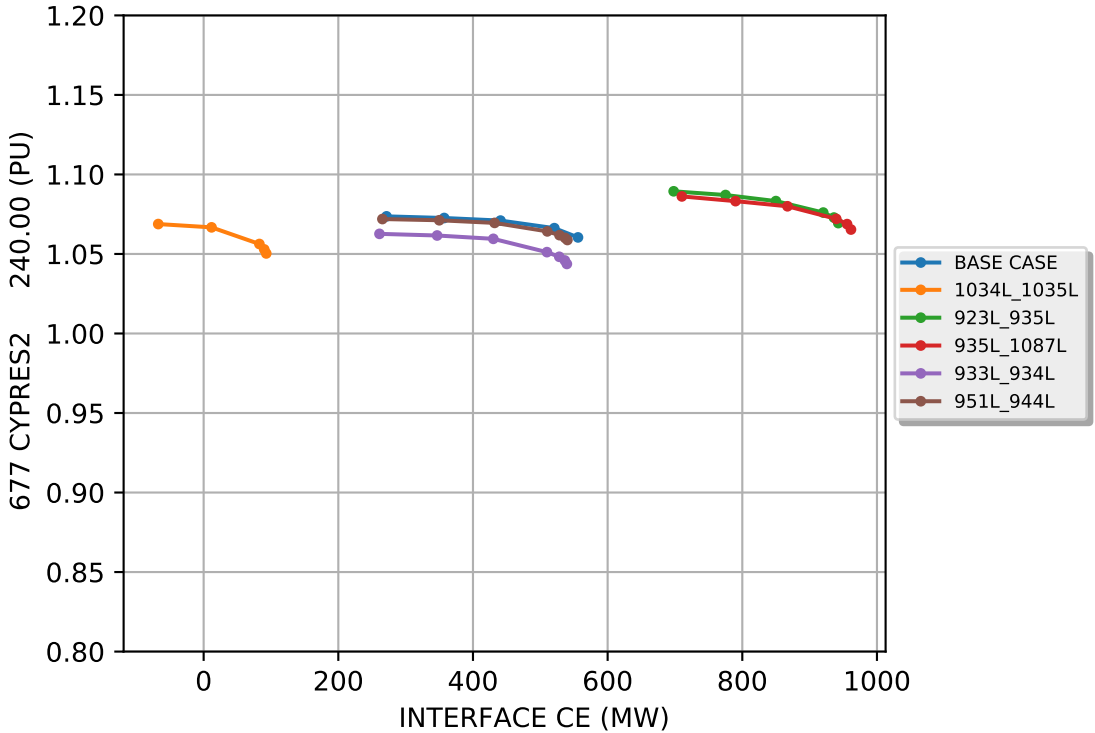


Figure: E-4-43

Case: H1, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 35.0%

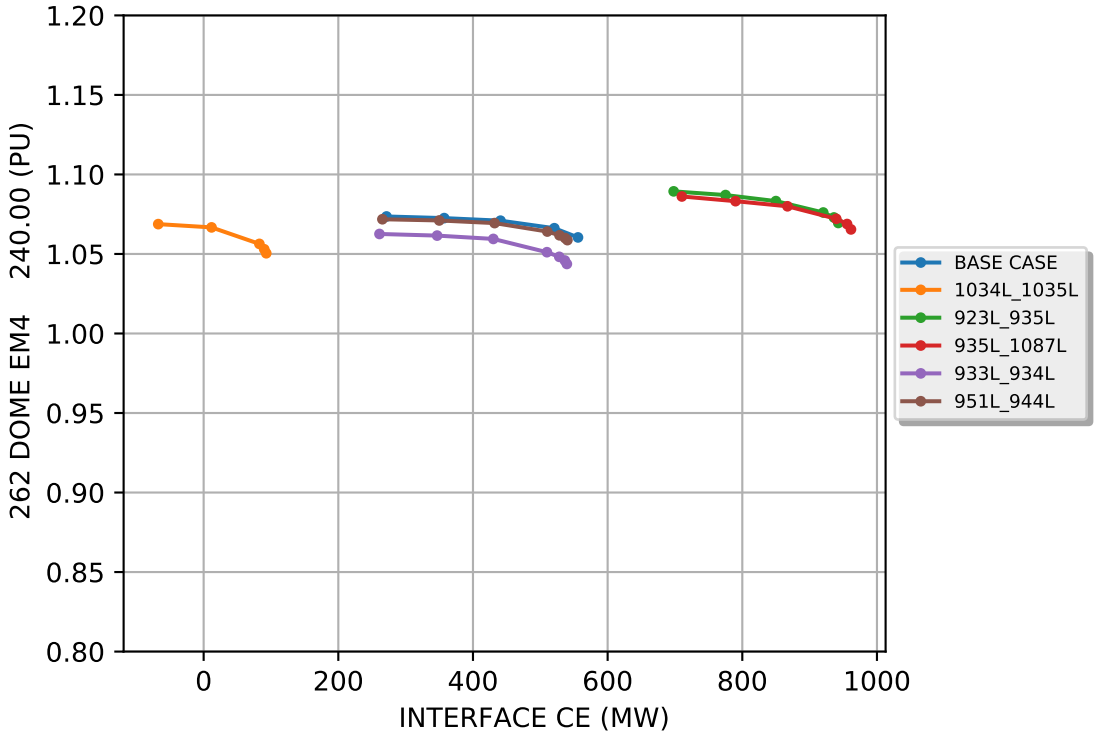


Figure: E-4-44

Case: H1, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 35.0%

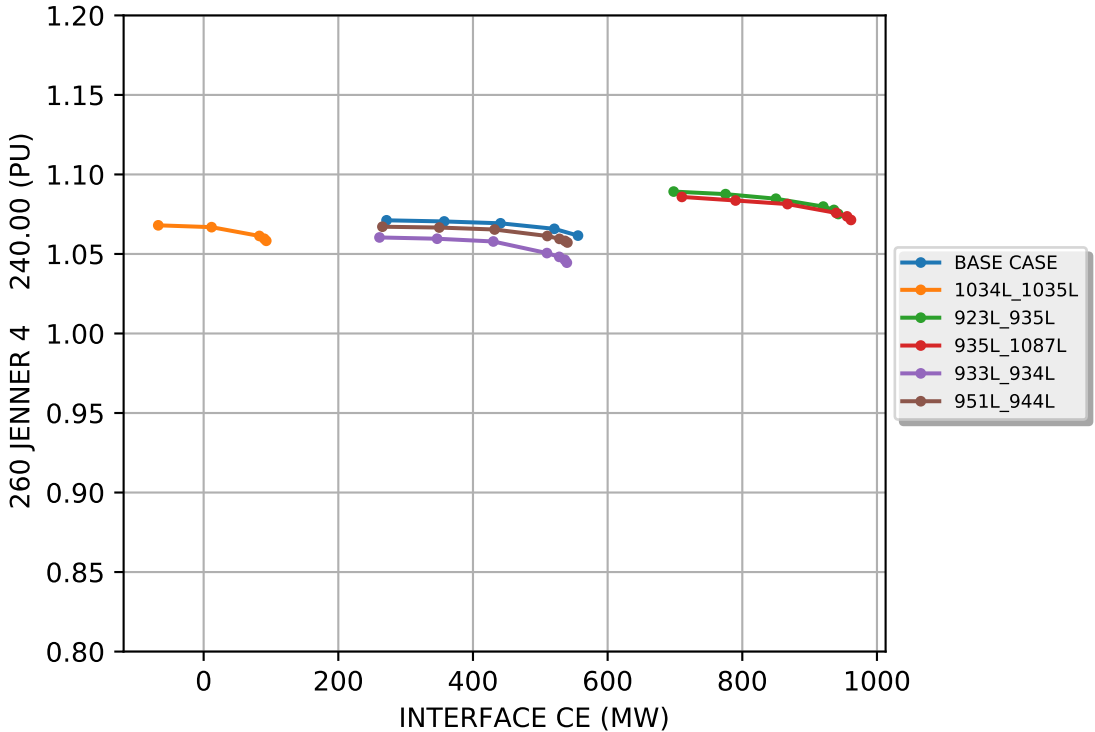


Figure: E-4-45

Case: H1, Option: PRE

Min Voltage: 1.05 PU, Min Margin: 35.0%

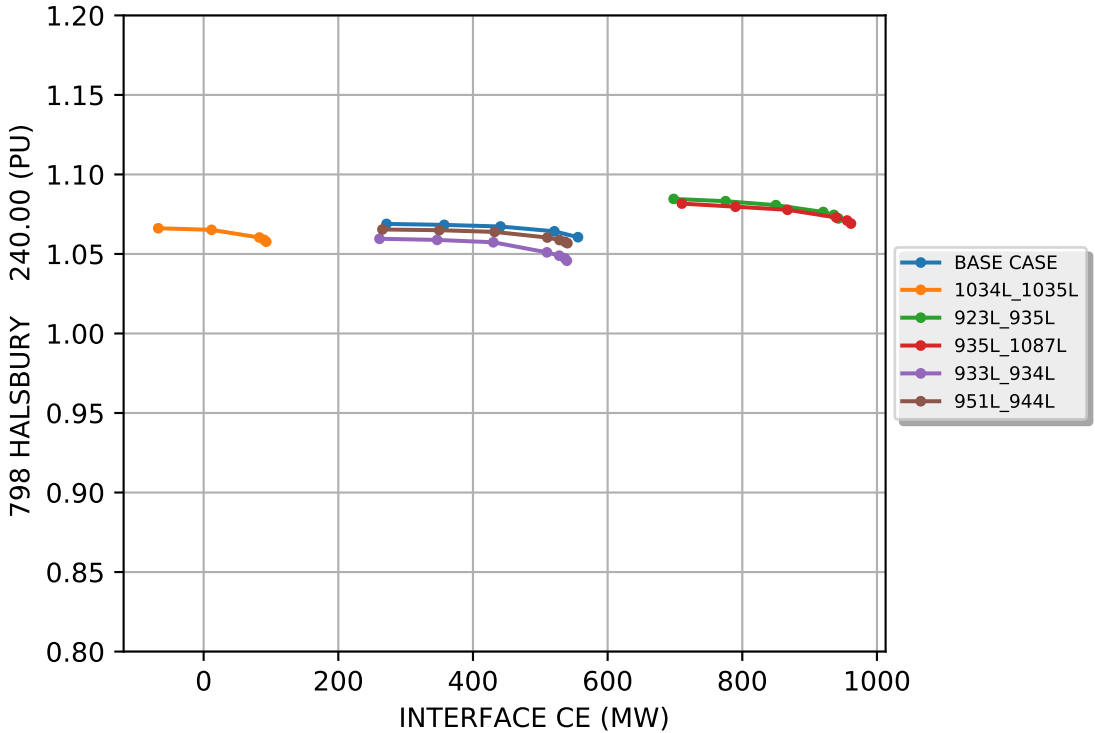


Figure: E-4-46

Case: H2, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 28.9%

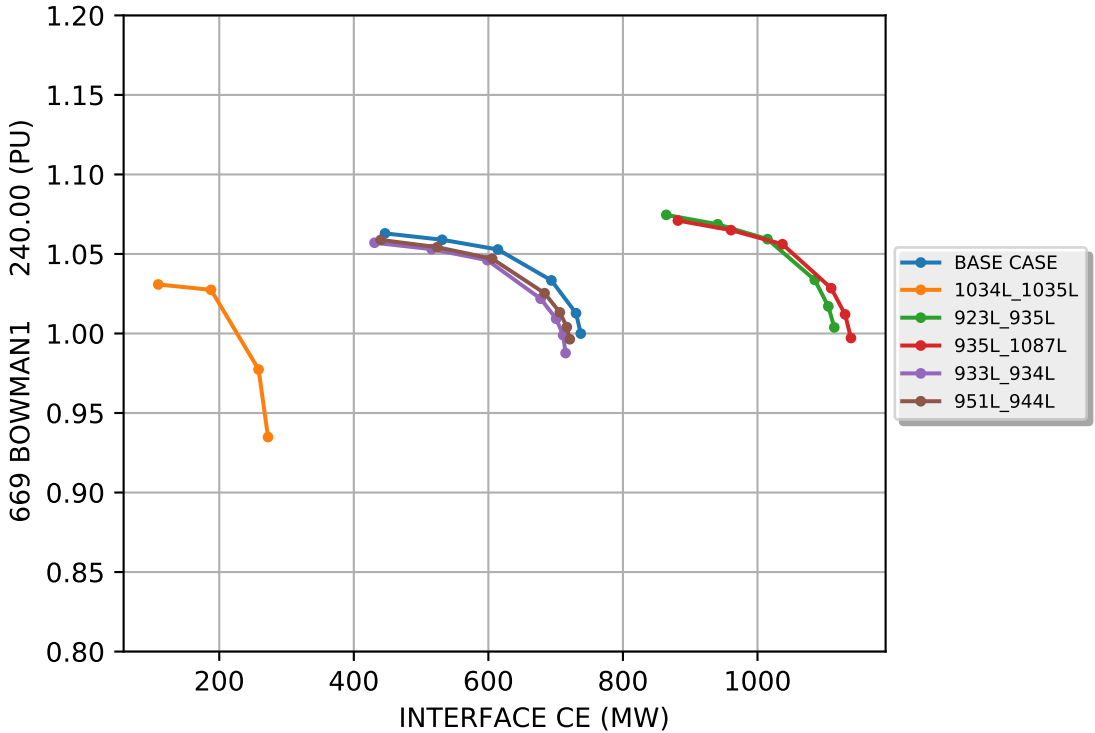


Figure: E-4-47

Case: H2, Option: PRE

Min Voltage: 1.02 PU, Min Margin: 28.9%

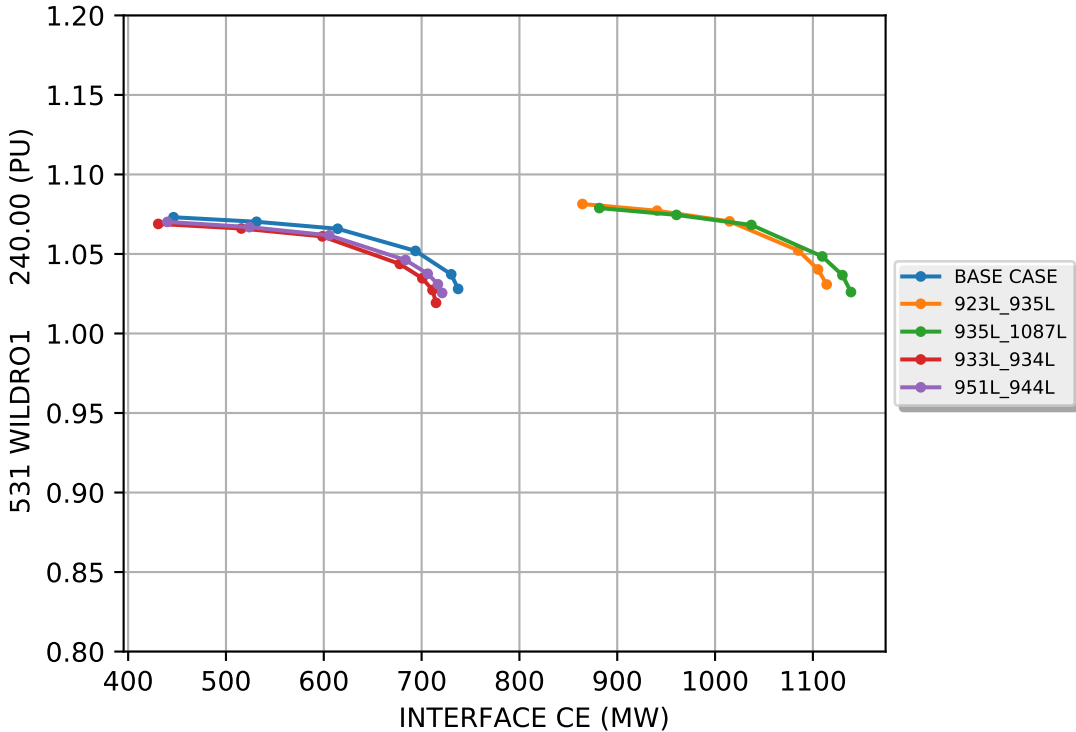


Figure: E-4-48

Case: H2, Option: PRE

Min Voltage: 1.02 PU, Min Margin: 28.9%

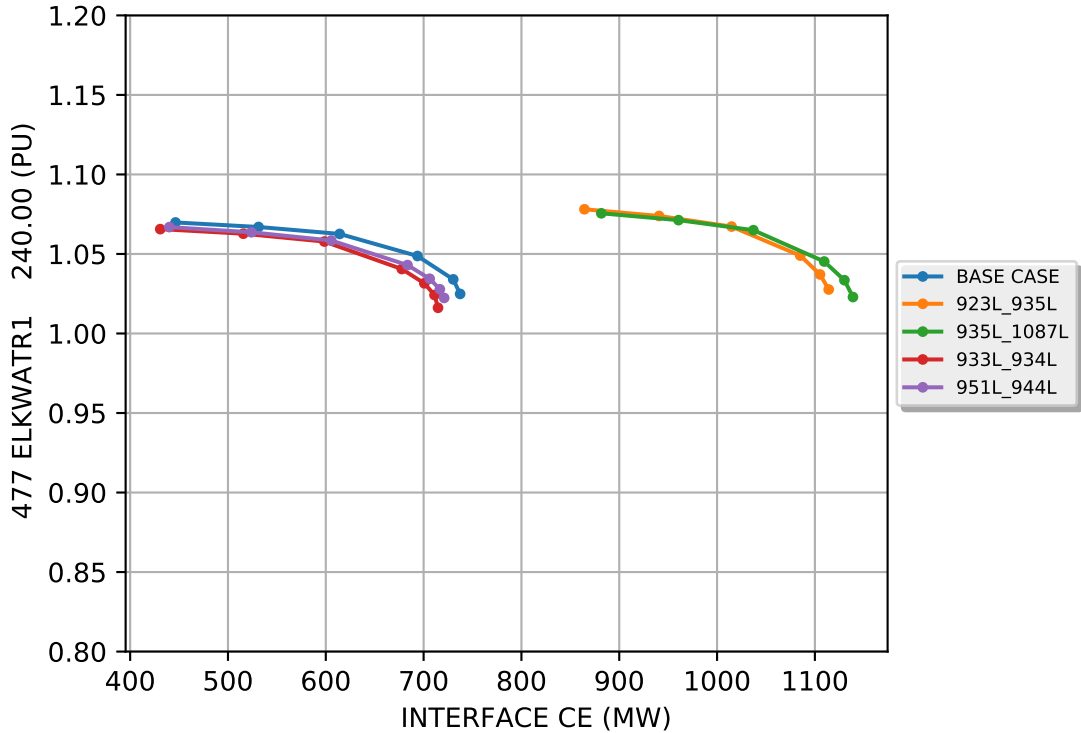


Figure: E-4-49

Case: H2, Option: PRE

Min Voltage: 1.00 PU, Min Margin: 28.9%

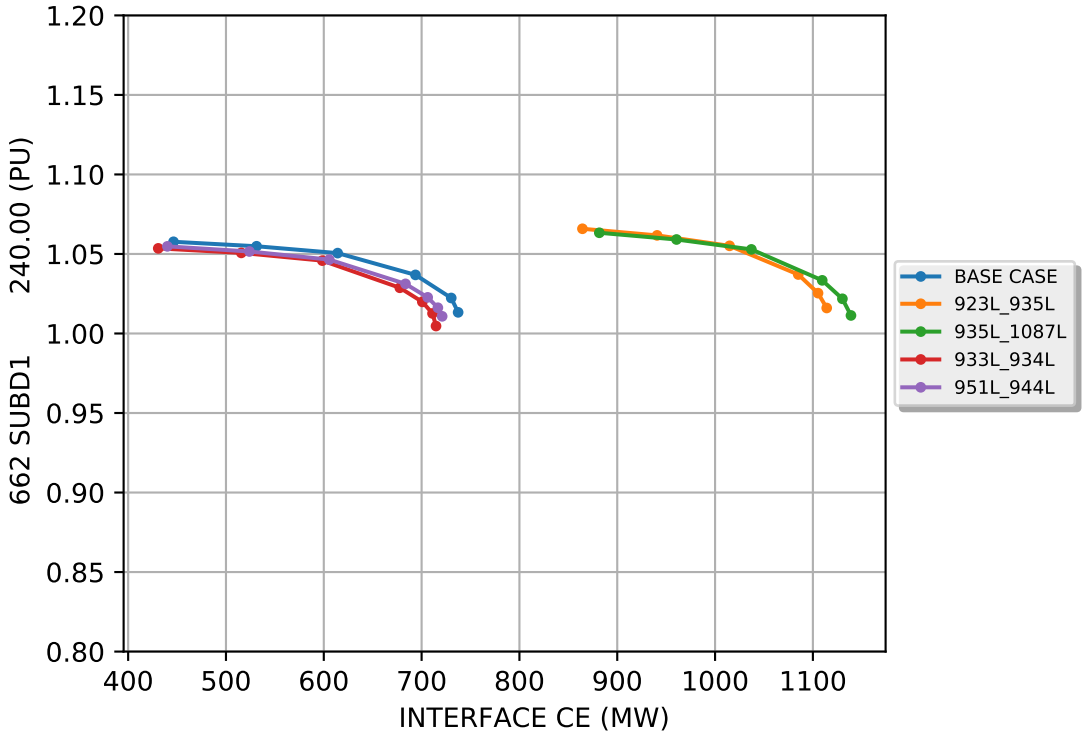


Figure: E-4-50

Case: H2, Option: PRE

Min Voltage: 1.00 PU, Min Margin: 28.9%

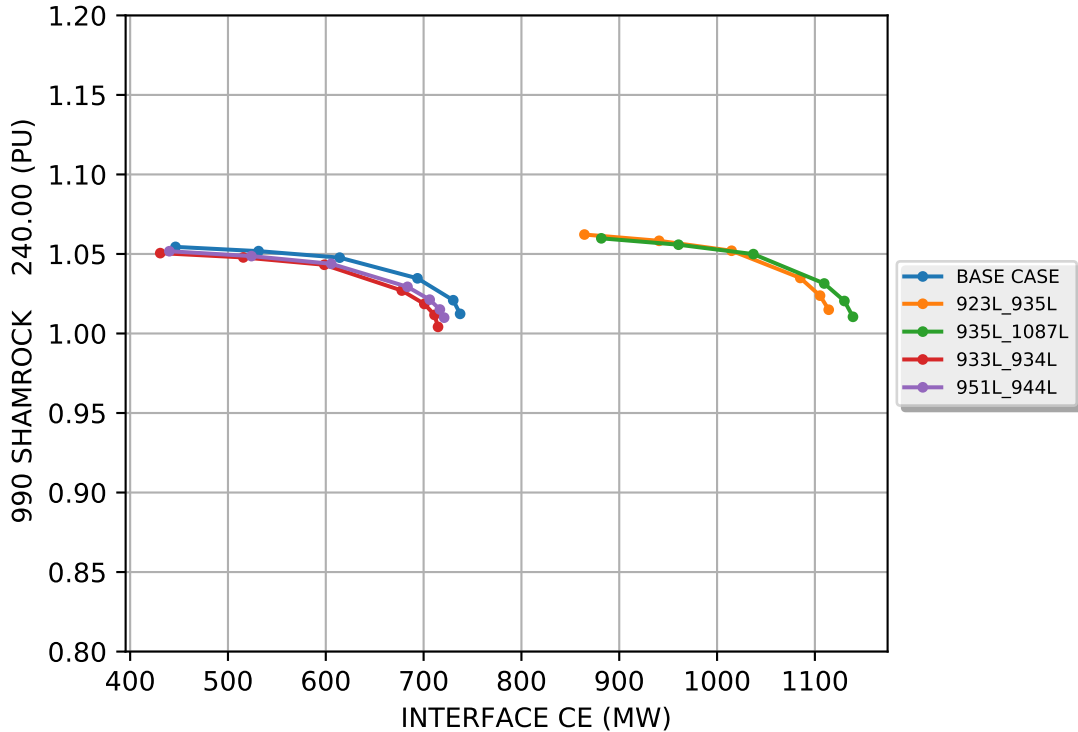


Figure: E-4-51

Case: H2, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 28.9%

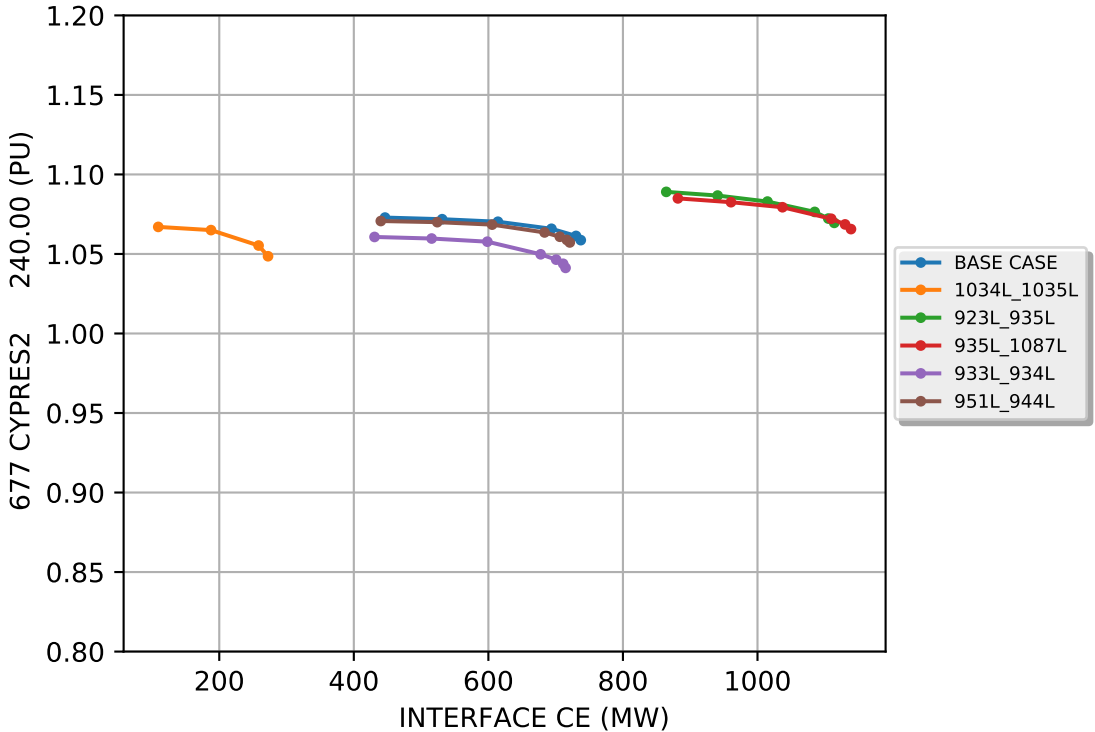


Figure: E-4-52

Case: H2, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 28.9%

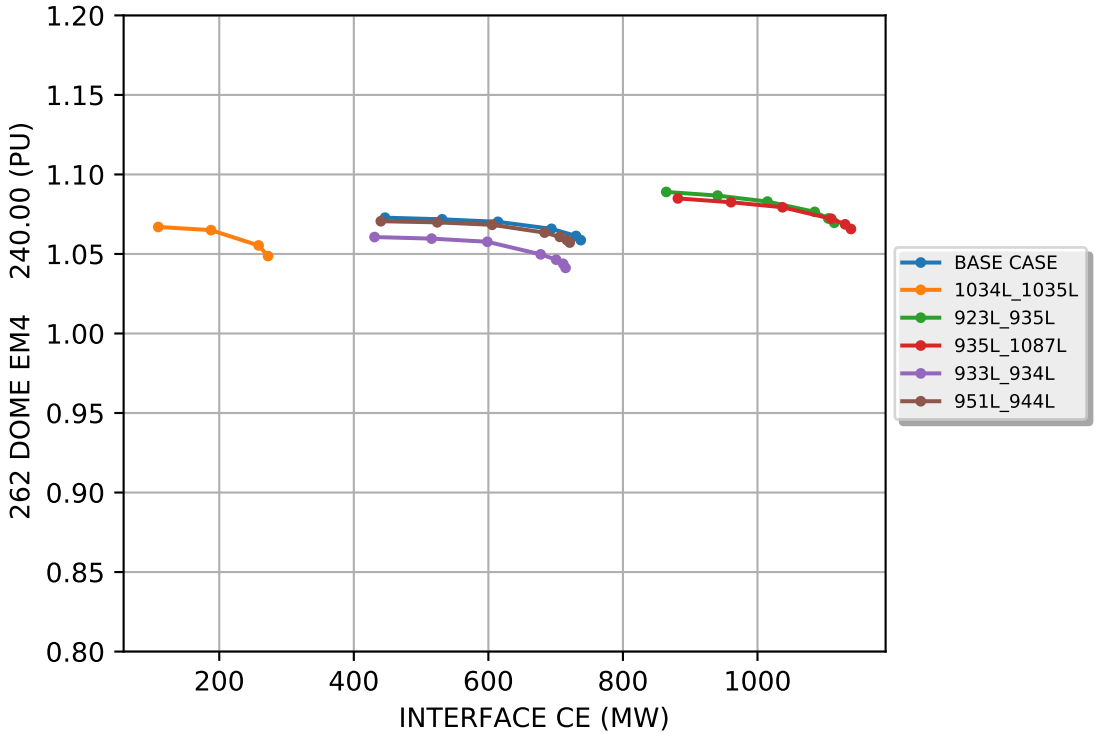


Figure: E-4-53

Case: H2, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 28.9%

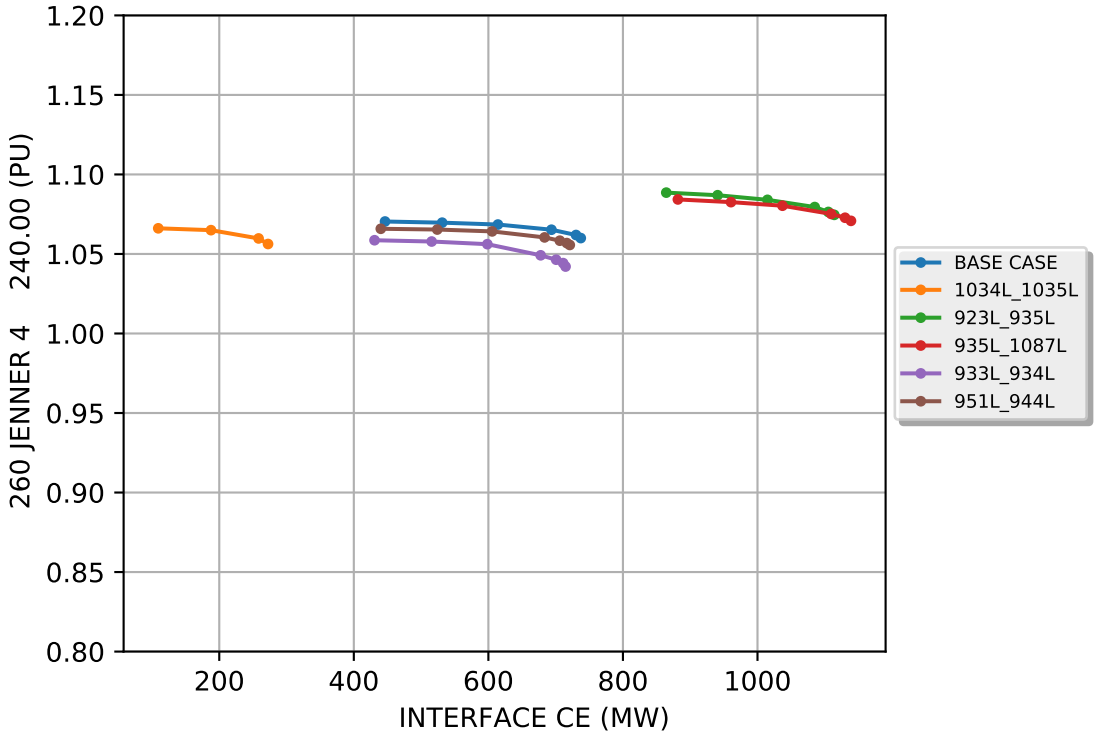


Figure: E-4-54

Case: H2, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 28.9%

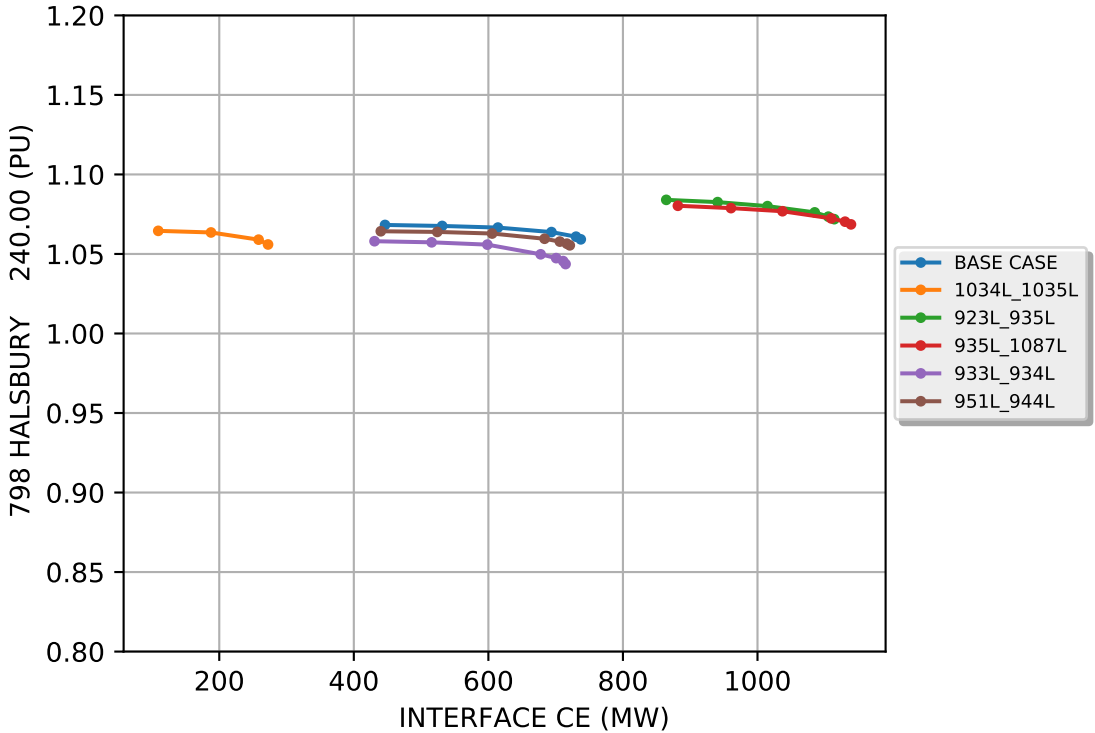


Figure: E-4-55

Case: H3, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 41.2%

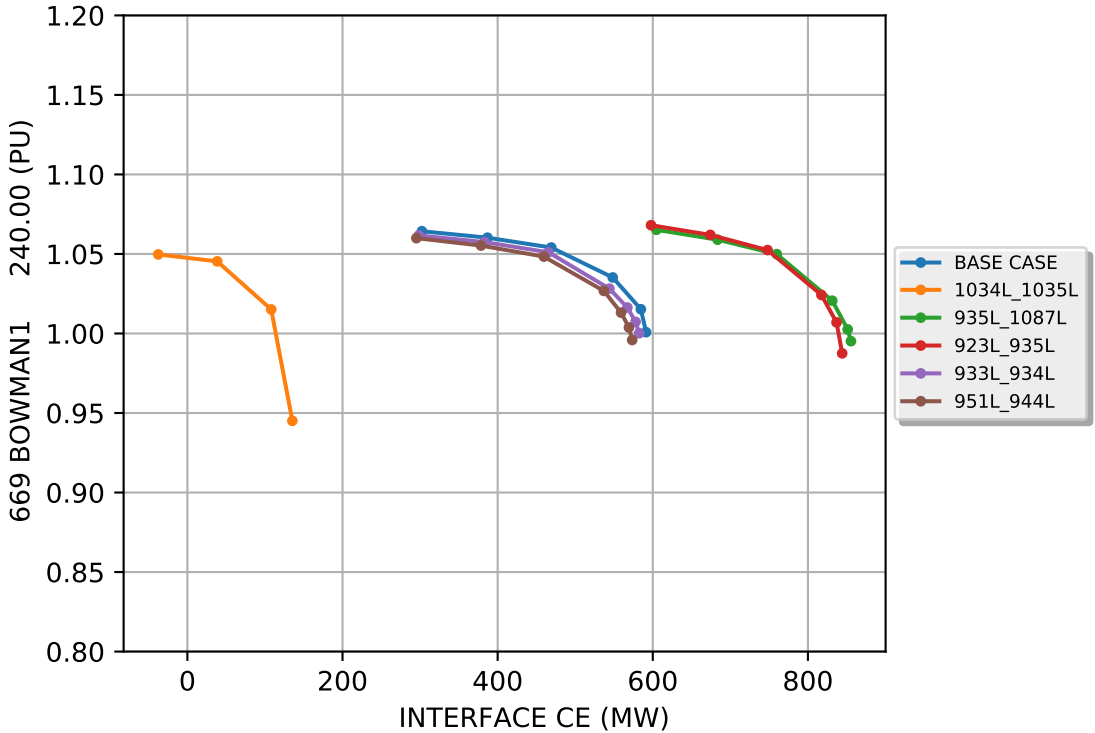


Figure: E-4-56

Case: H3, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 41.2%

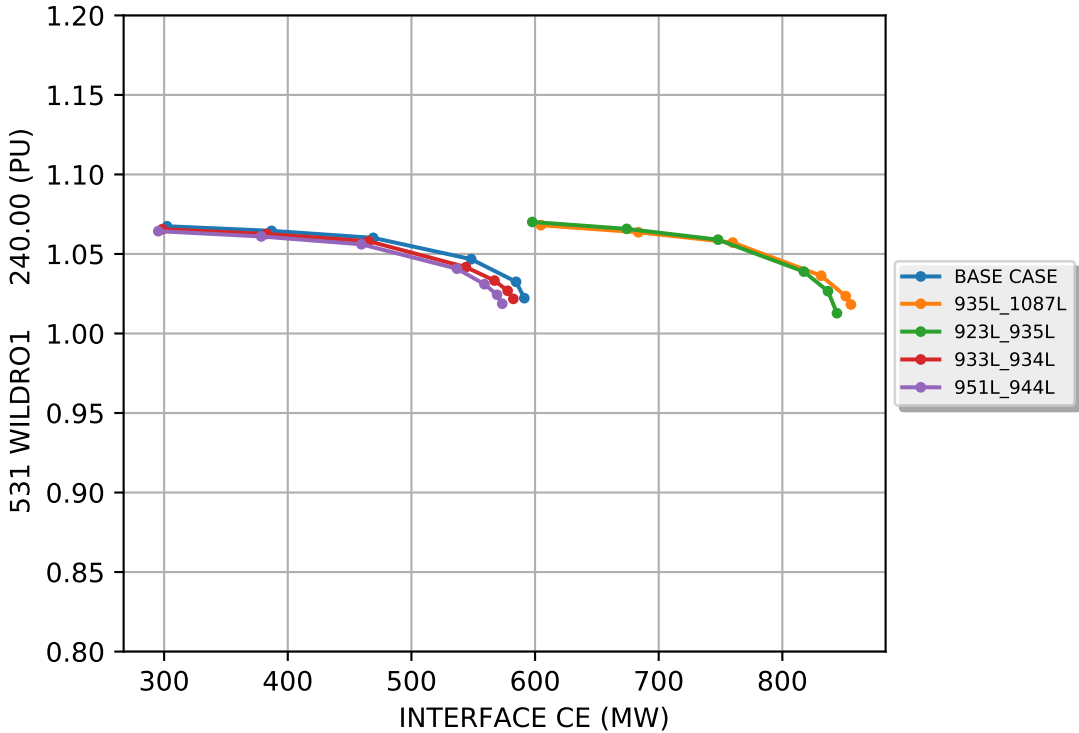


Figure: E-4-57

Case: H3, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 41.2%

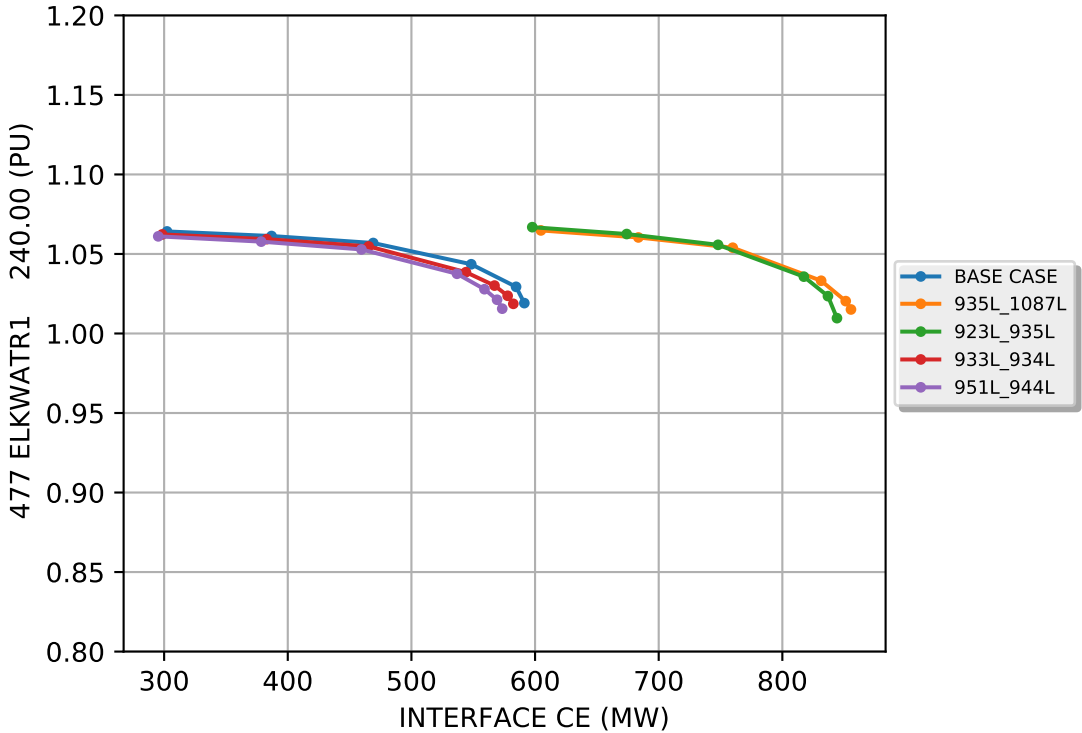


Figure: E-4-58

Case: H3, Option: PRE

Min Voltage: 1.00 PU, Min Margin: 41.2%

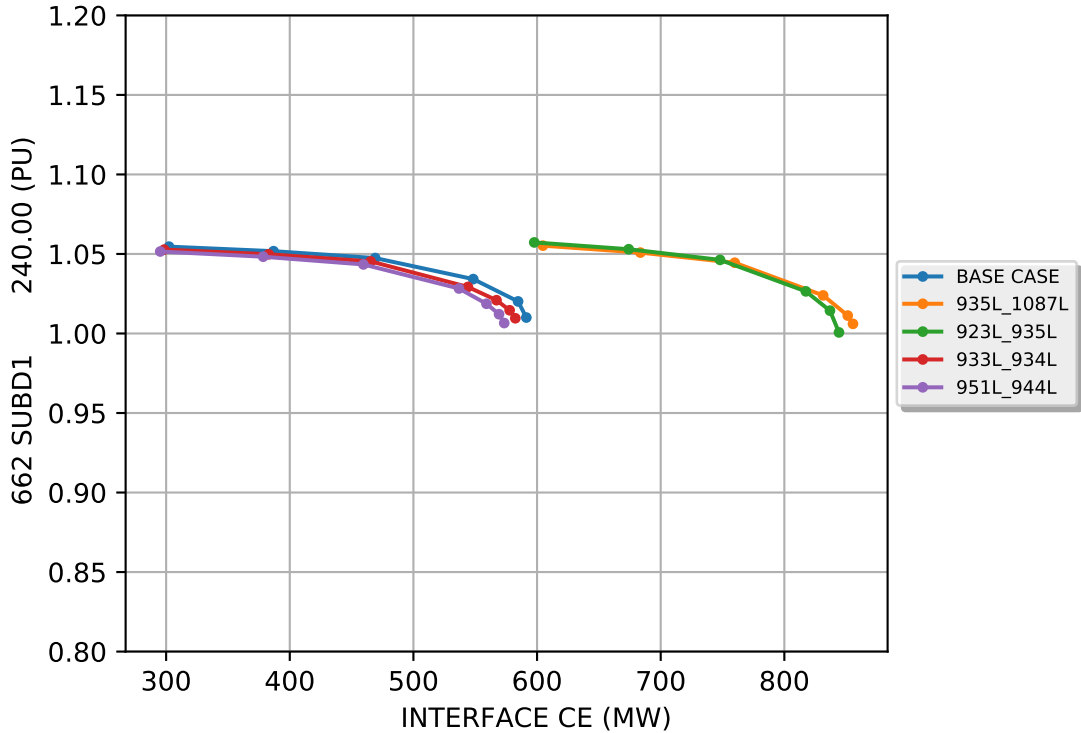


Figure: E-4-59

Case: H3, Option: PRE

Min Voltage: 1.00 PU, Min Margin: 41.2%

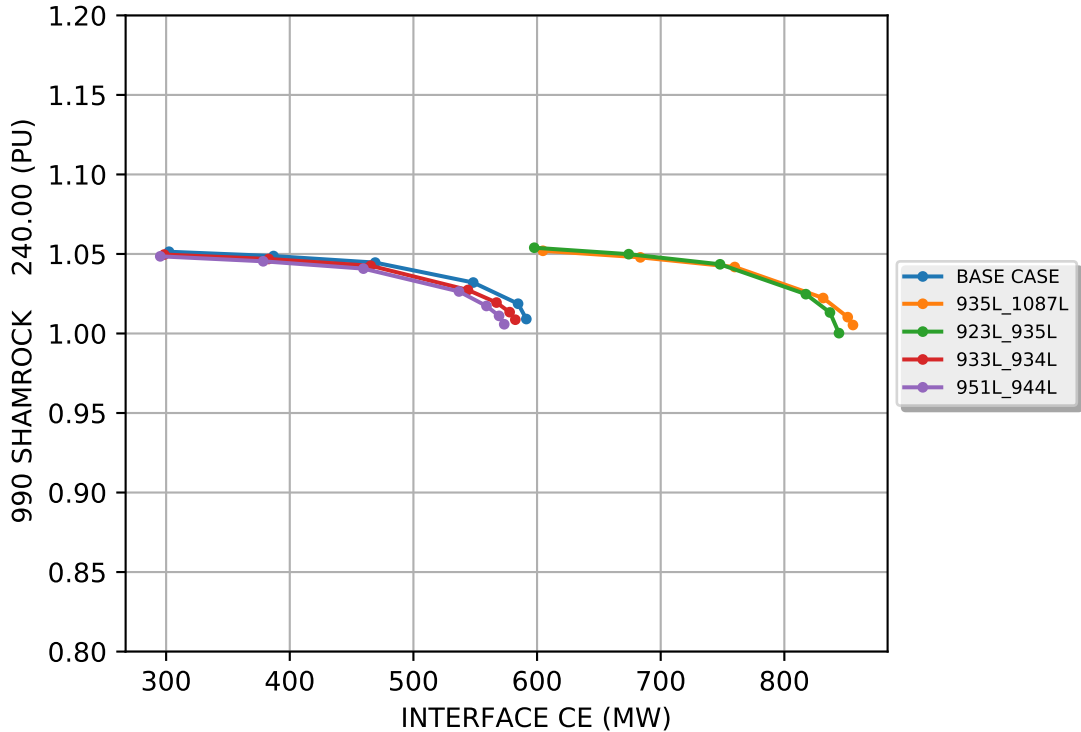


Figure: E-4-60

Case: H3, Option: PRE

Min Voltage: 1.05 PU, Min Margin: 41.2%

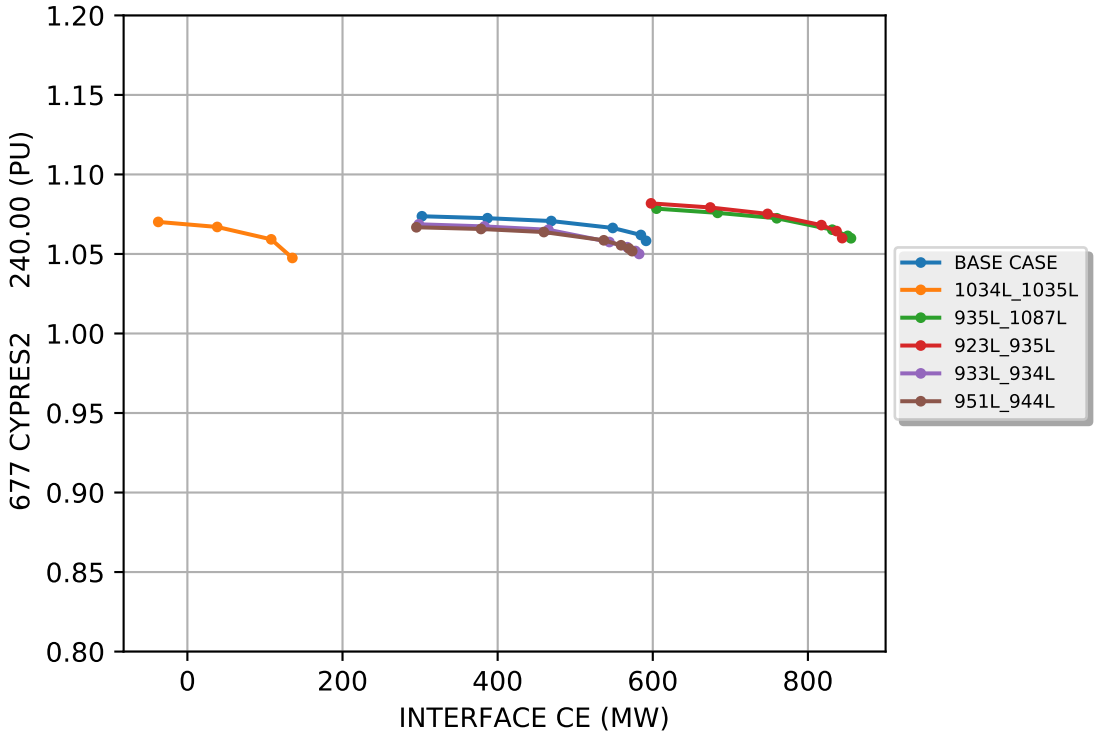


Figure: E-4-61

Case: H3, Option: PRE

Min Voltage: 1.05 PU, Min Margin: 41.2%

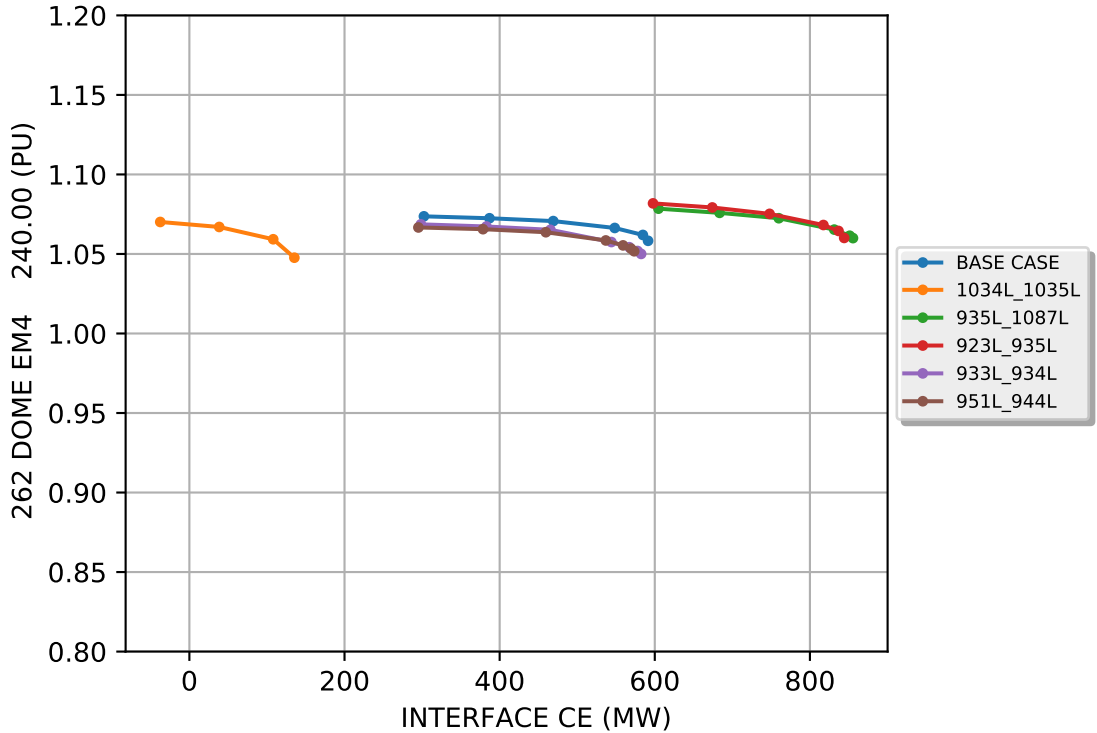


Figure: E-4-62

Case: H3, Option: PRE

Min Voltage: 1.05 PU, Min Margin: 41.2%

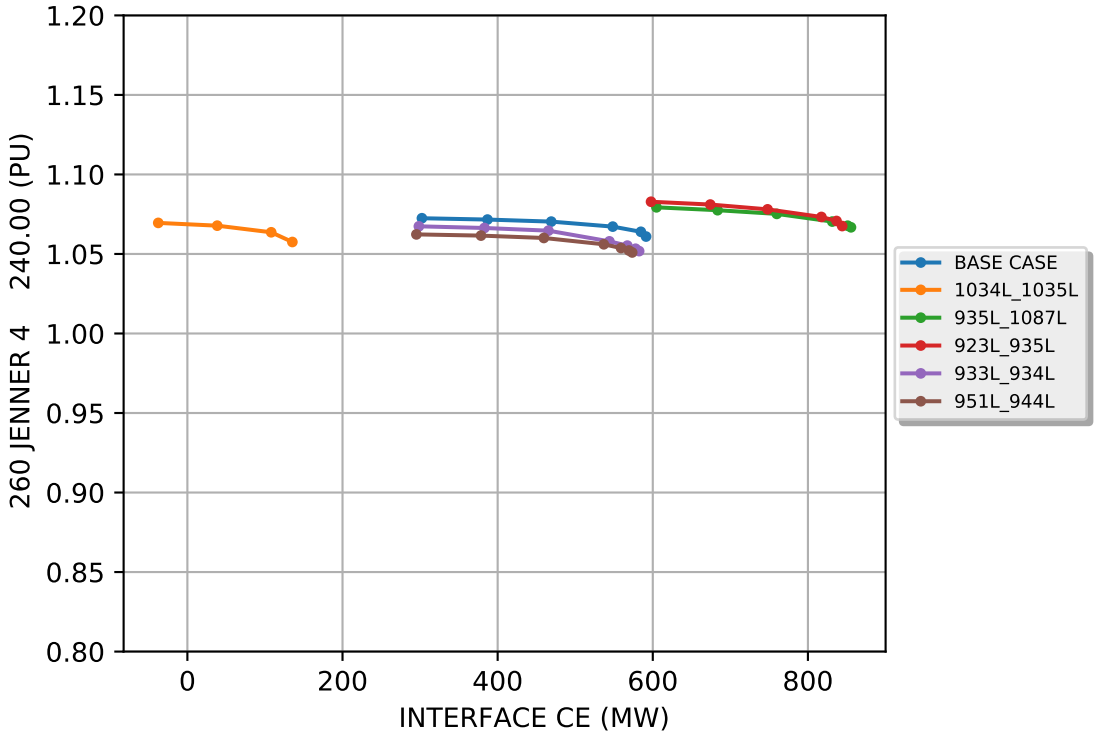


Figure: E-4-63

Case: H3, Option: PRE

Min Voltage: 1.05 PU, Min Margin: 41.2%

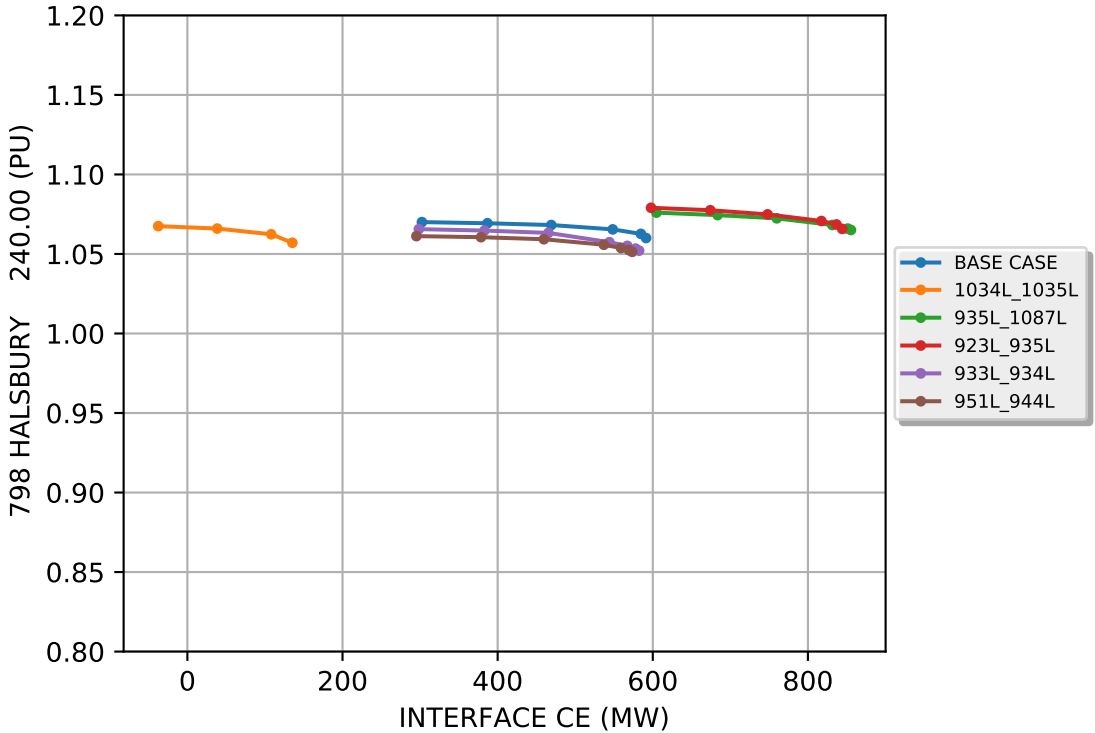


Figure: E-4-64

Case: H6, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 76.1%

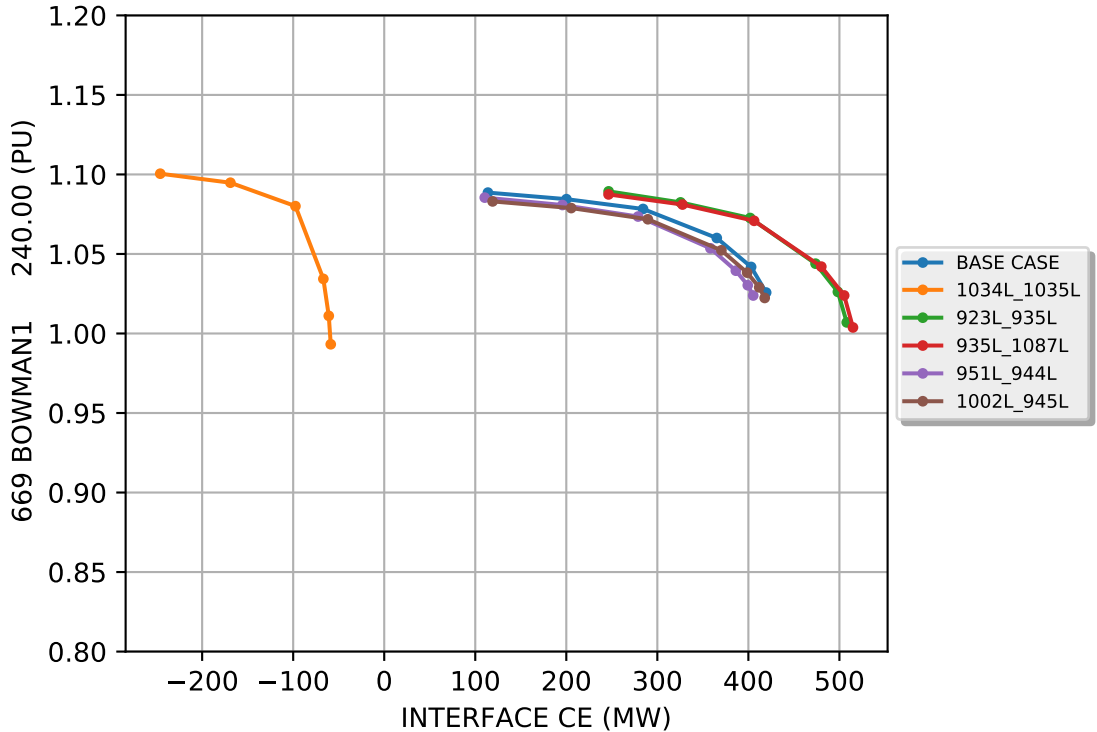


Figure: E-4-65

Case: H6, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 106.1%

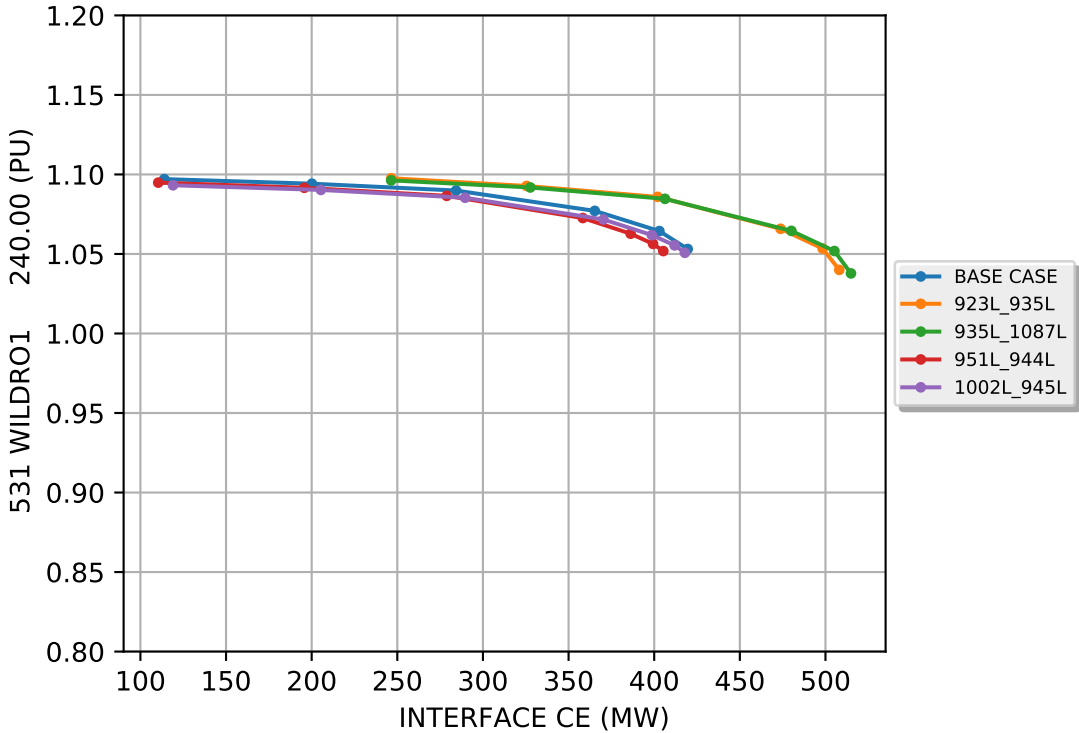


Figure: E-4-66

Case: H6, Option: PRE

Min Voltage: 1.03 PU, Min Margin: 106.1%

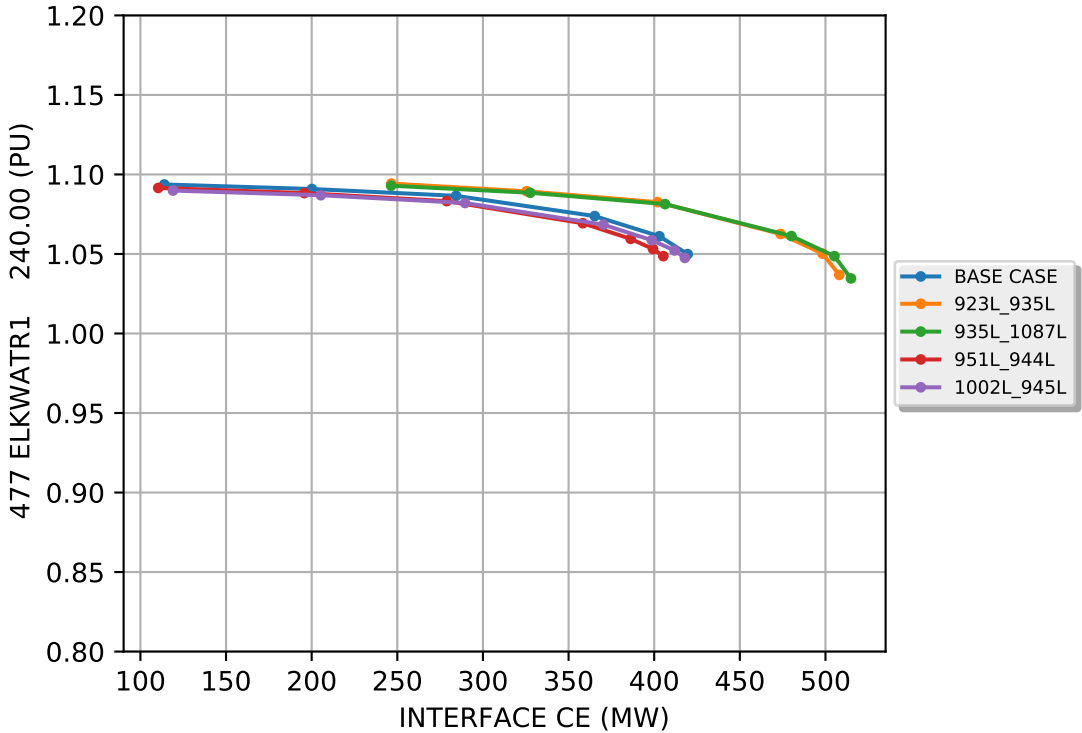


Figure: E-4-67

Case: H6, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 106.1%

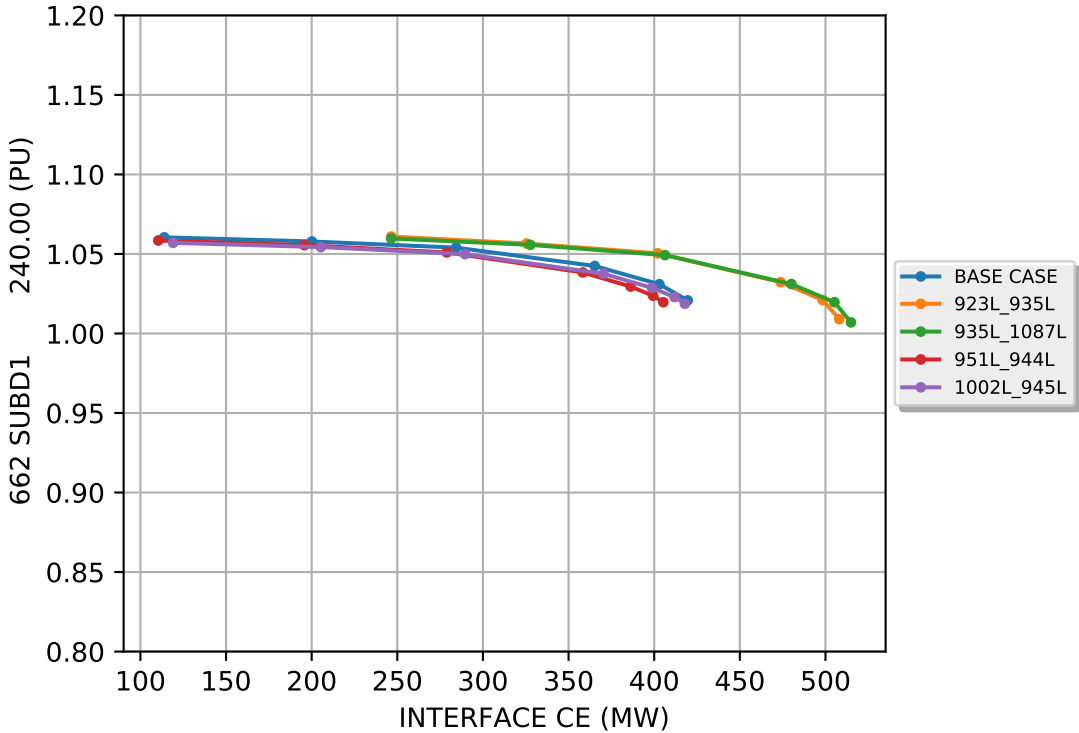


Figure: E-4-68

Case: H6, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 106.1%

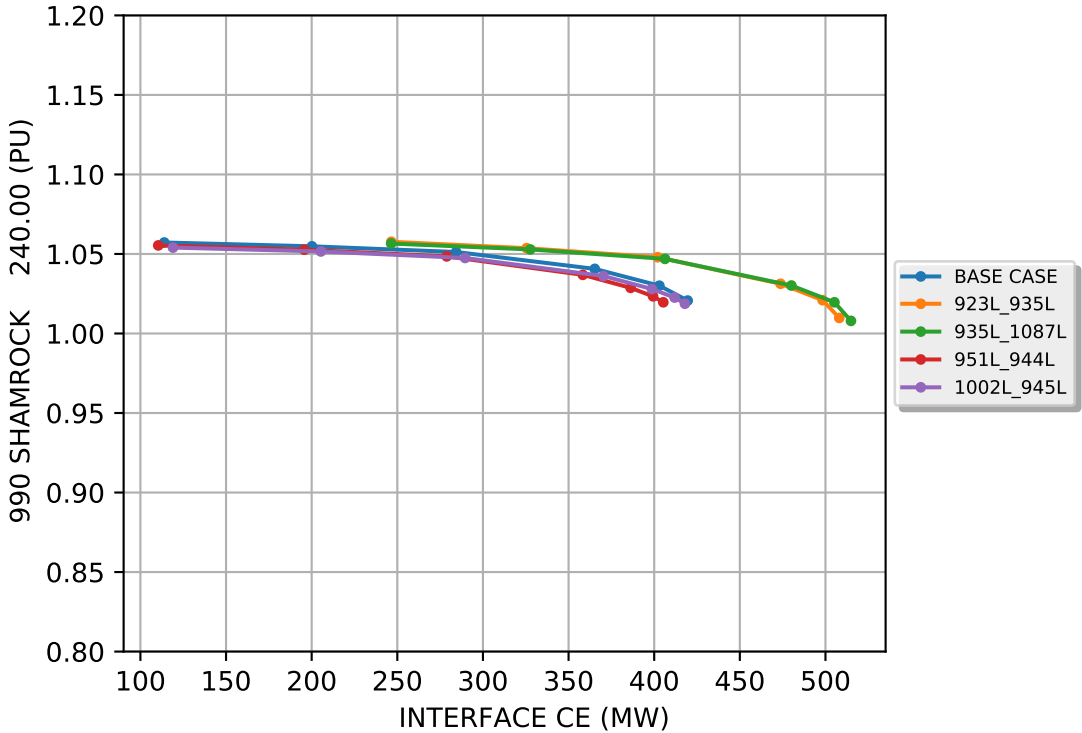


Figure: E-4-69

Case: H6, Option: PRE

Min Voltage: 0.92 PU, Min Margin: 76.1%

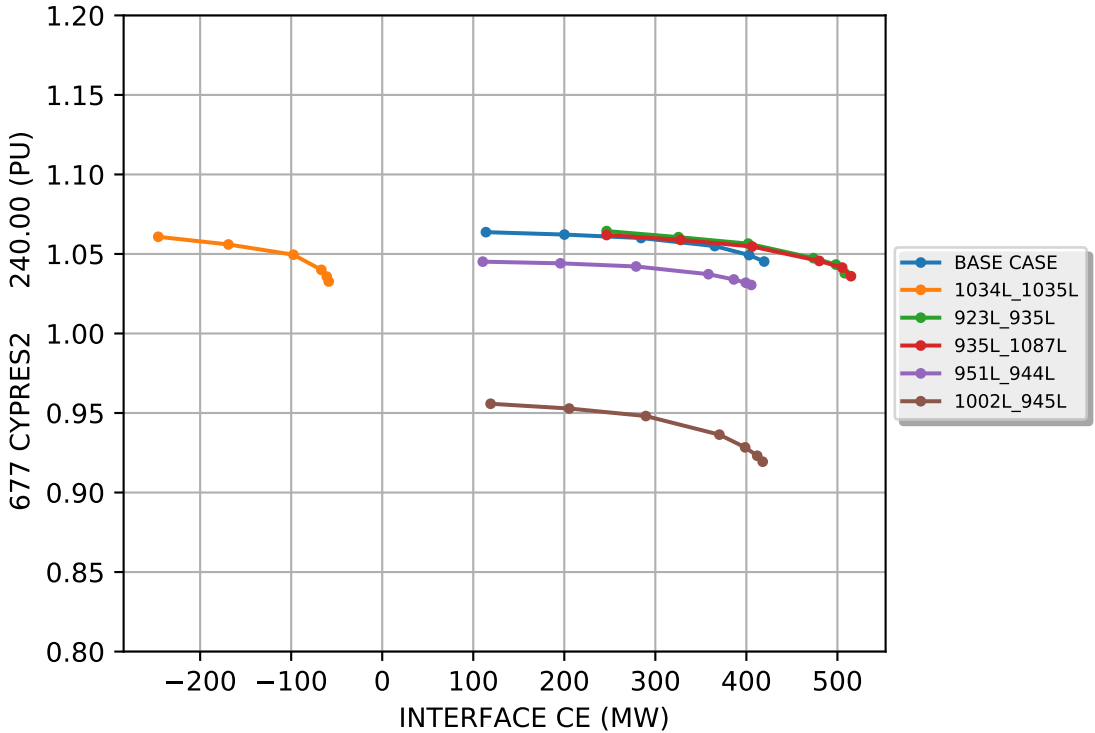


Figure: E-4-70

Case: H6, Option: PRE

Min Voltage: 0.92 PU, Min Margin: 76.1%

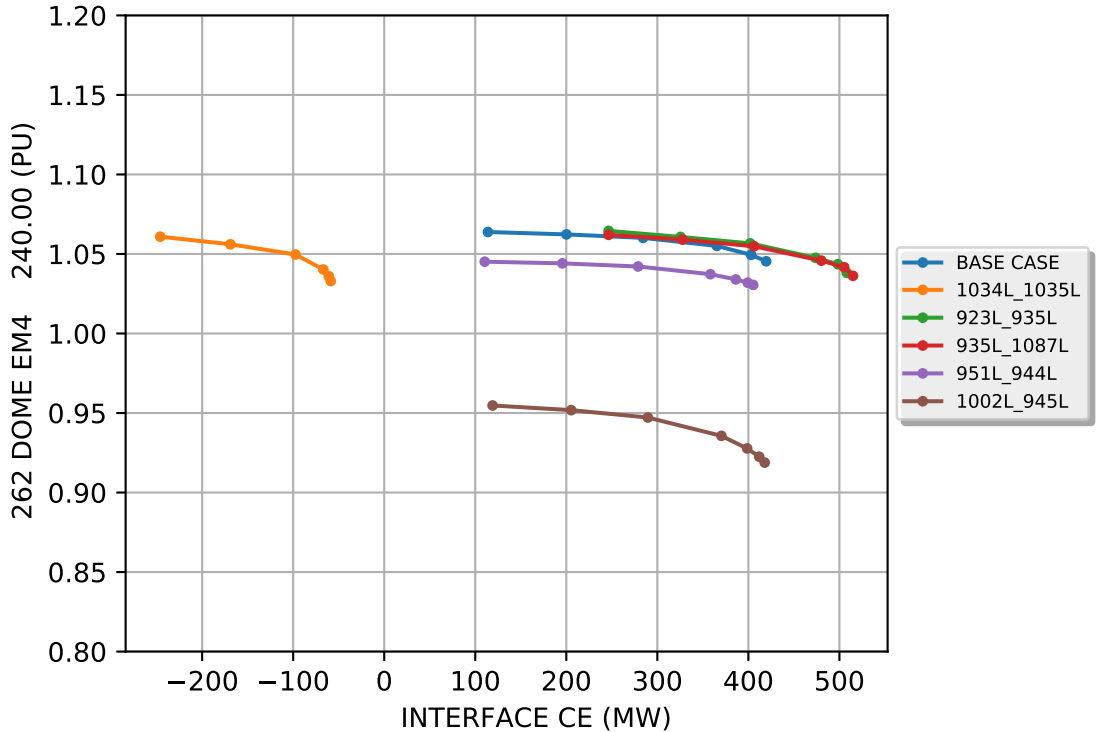


Figure: E-4-71

Case: H6, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 76.1%

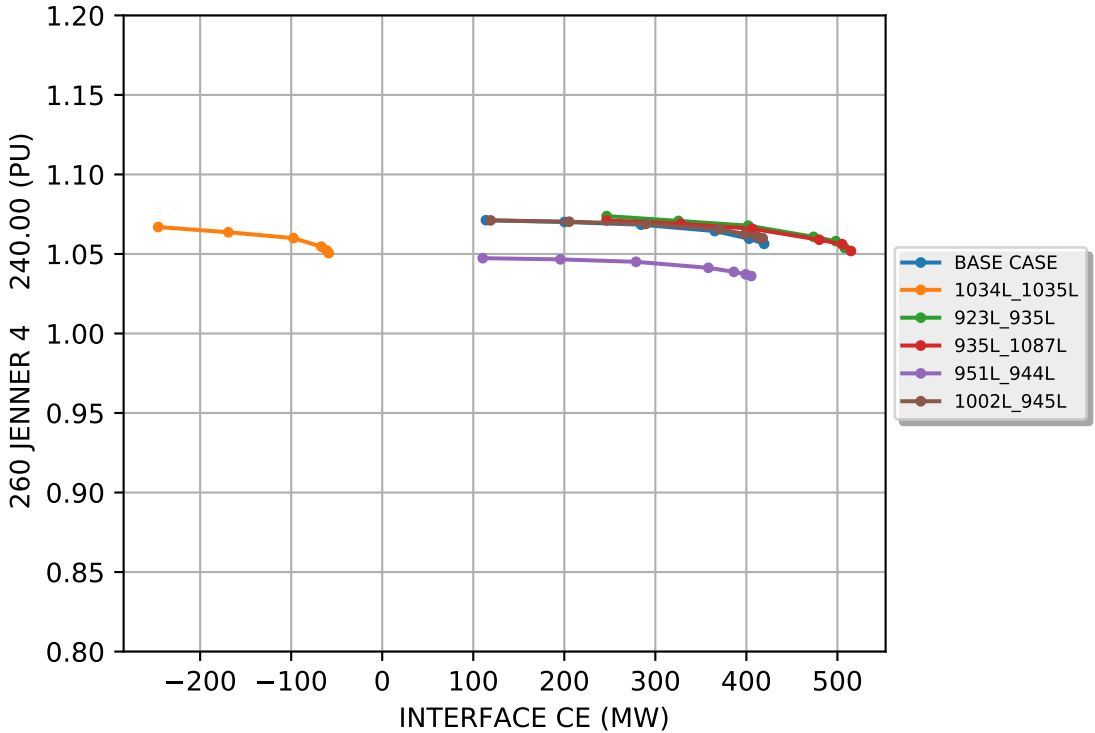


Figure: E-4-72

Case: H6, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 76.1%

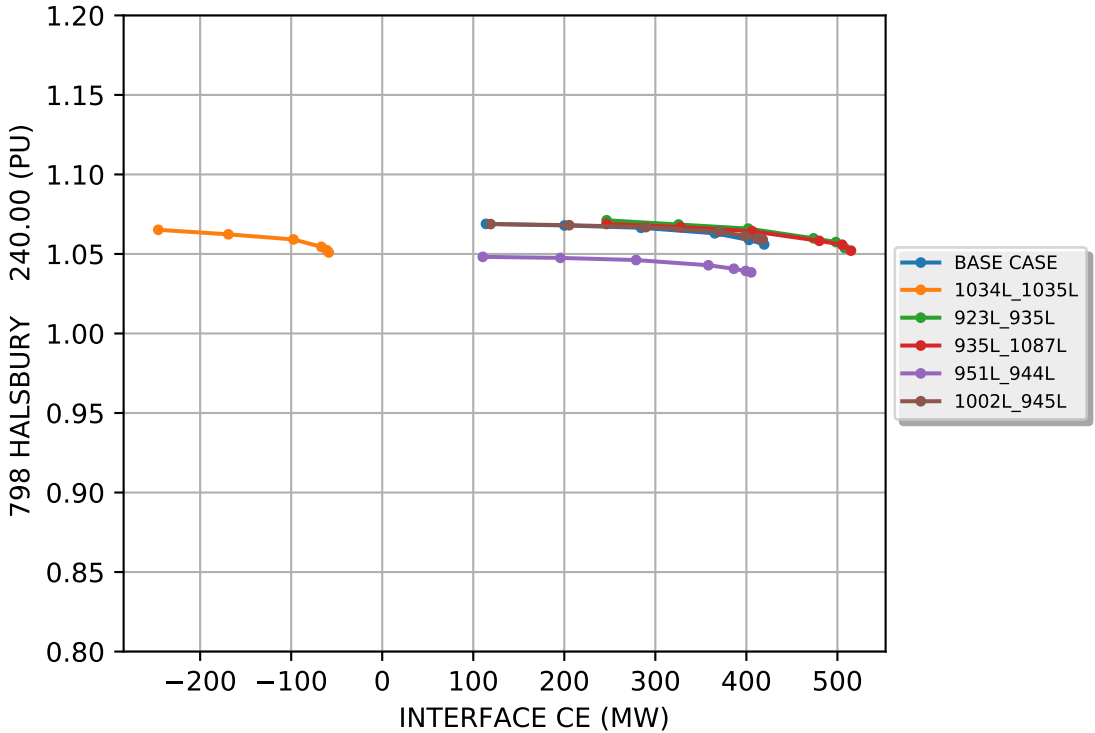


Figure: E-4-73

Case: M1, Option: PRE

Min Voltage: 0.90 PU, Min Margin: 175.8%

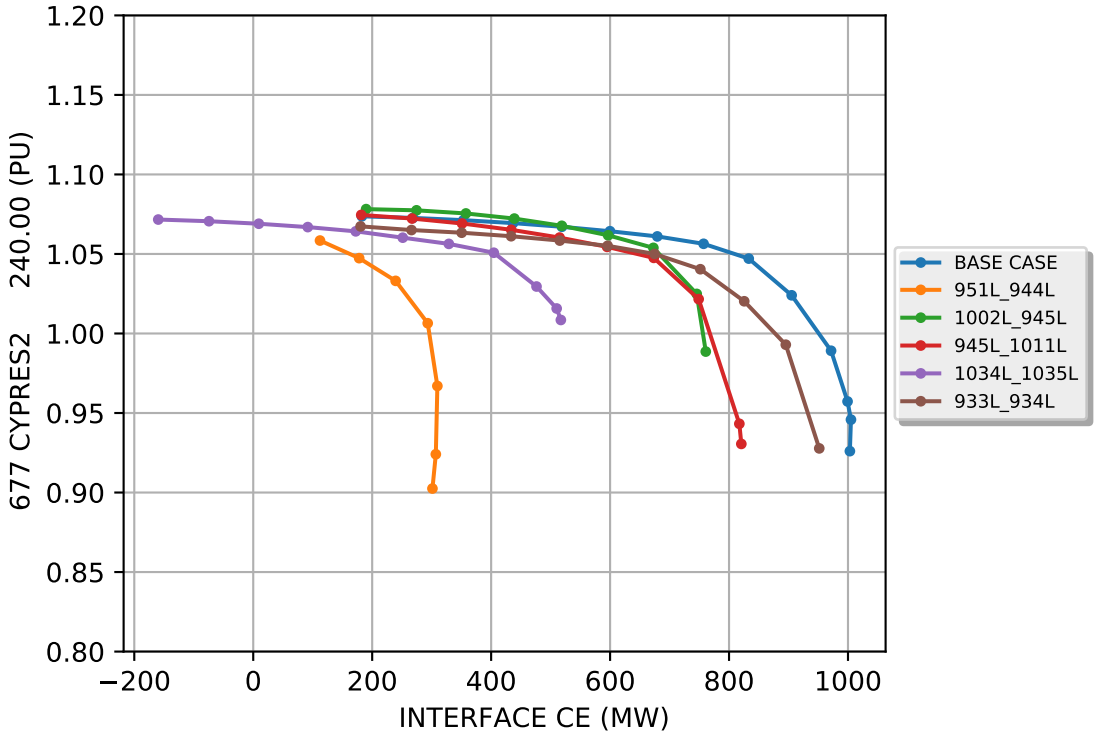


Figure: E-4-74

Case: M1, Option: PRE

Min Voltage: 0.90 PU, Min Margin: 175.8%

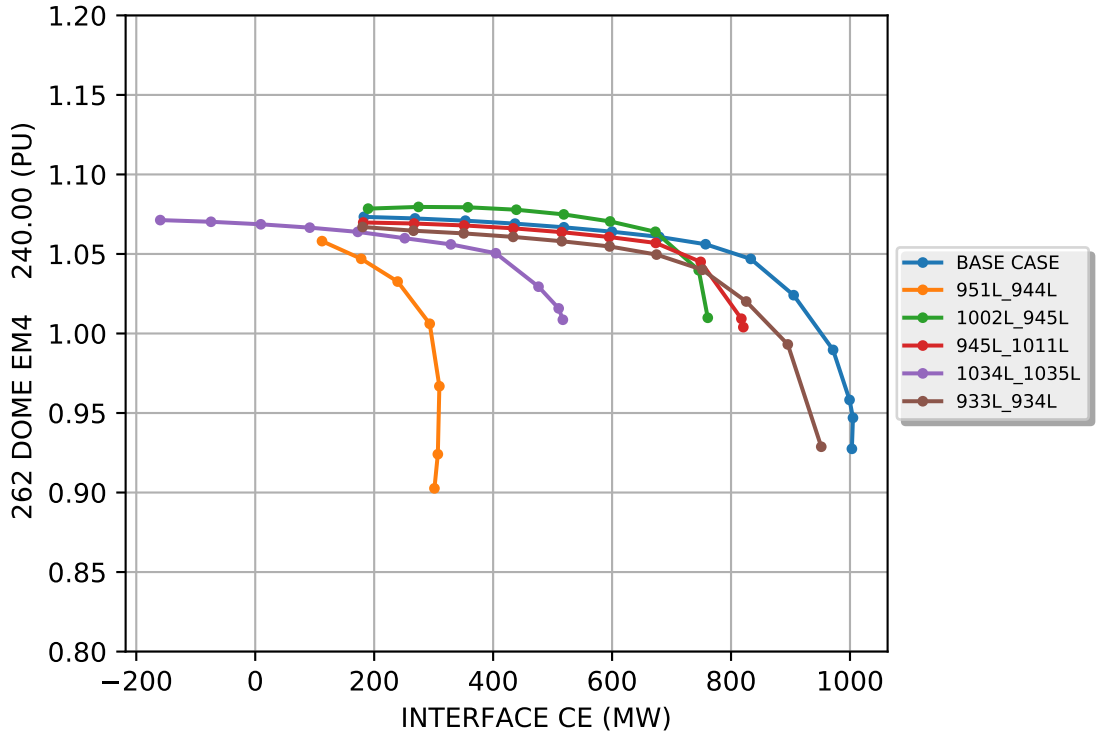


Figure: E-4-75

Case: M1, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 175.8%

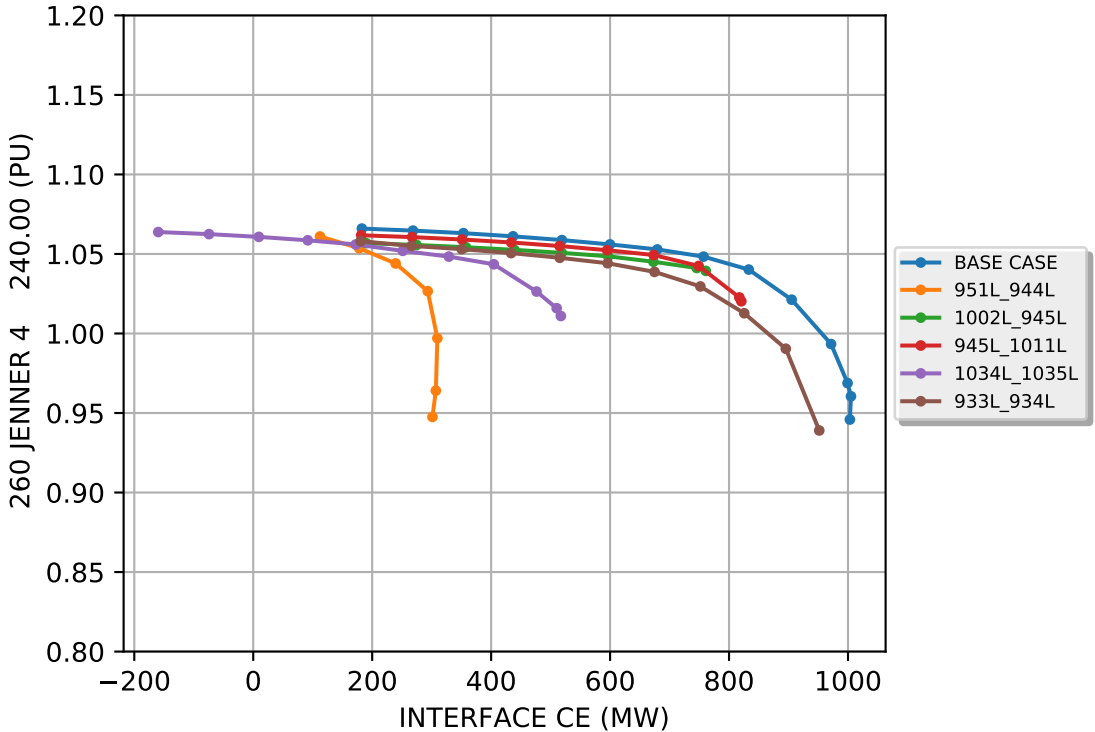


Figure: E-4-76

Case: M1, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 175.8%

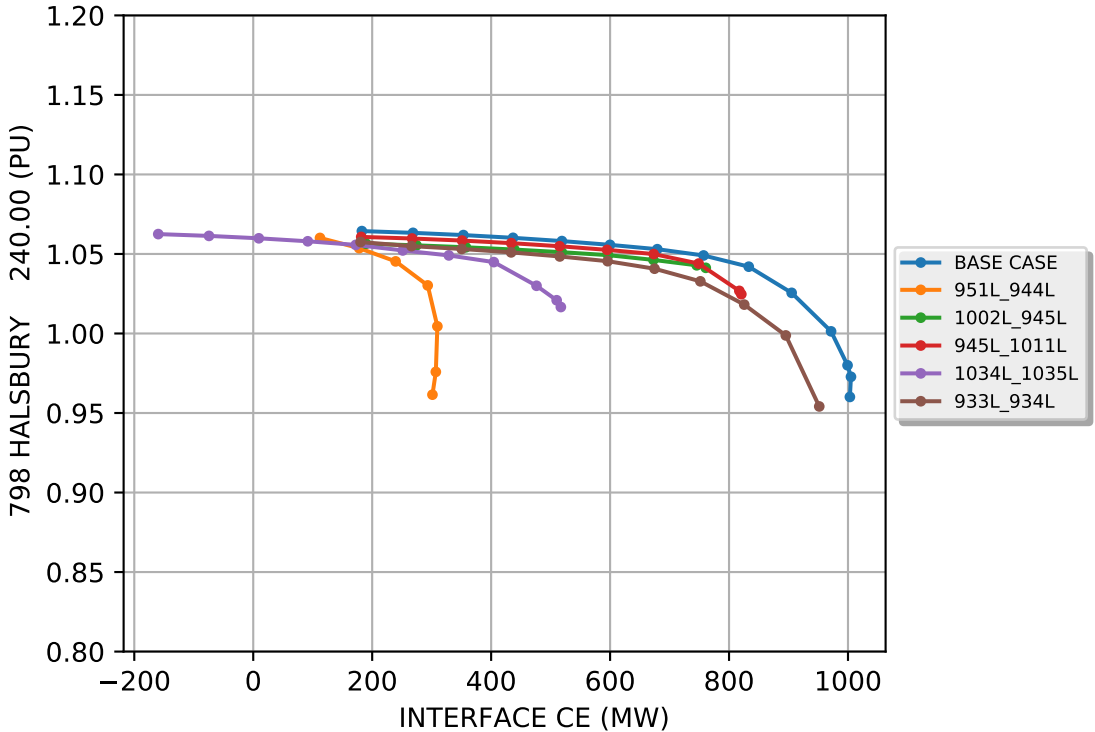


Figure: E-4-77

Case: M1, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 175.8%

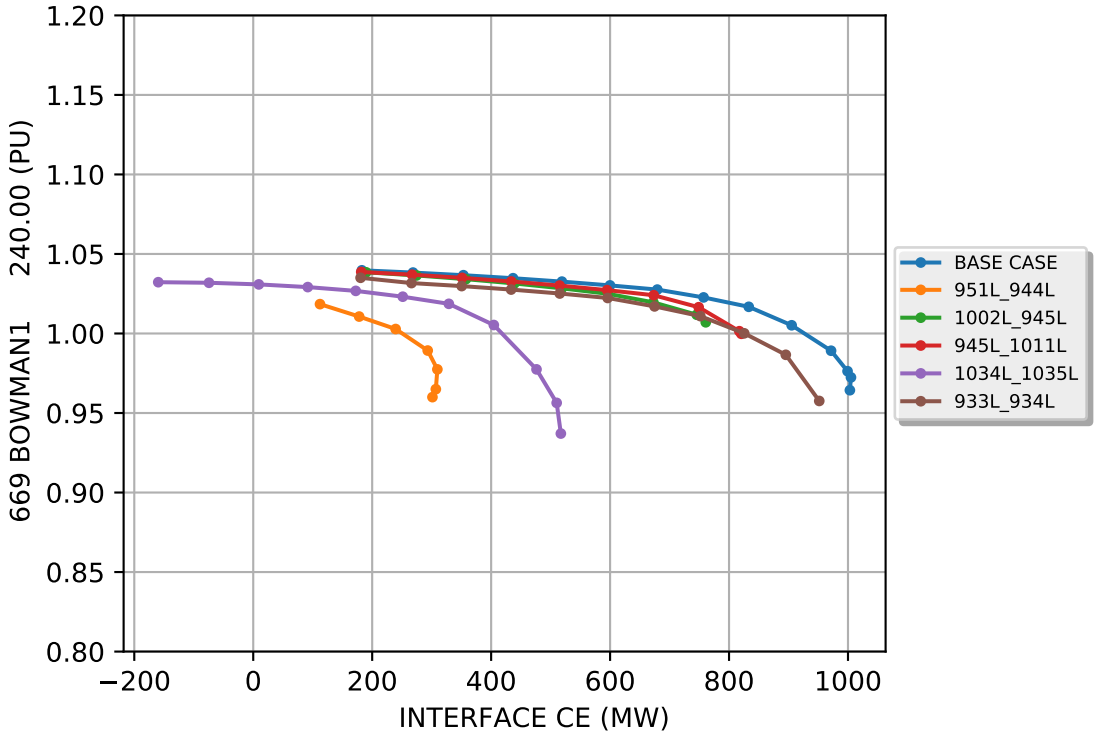


Figure: E-4-78

Case: M1, Option: PRE

Min Voltage: 0.98 PU, Min Margin: 175.8%

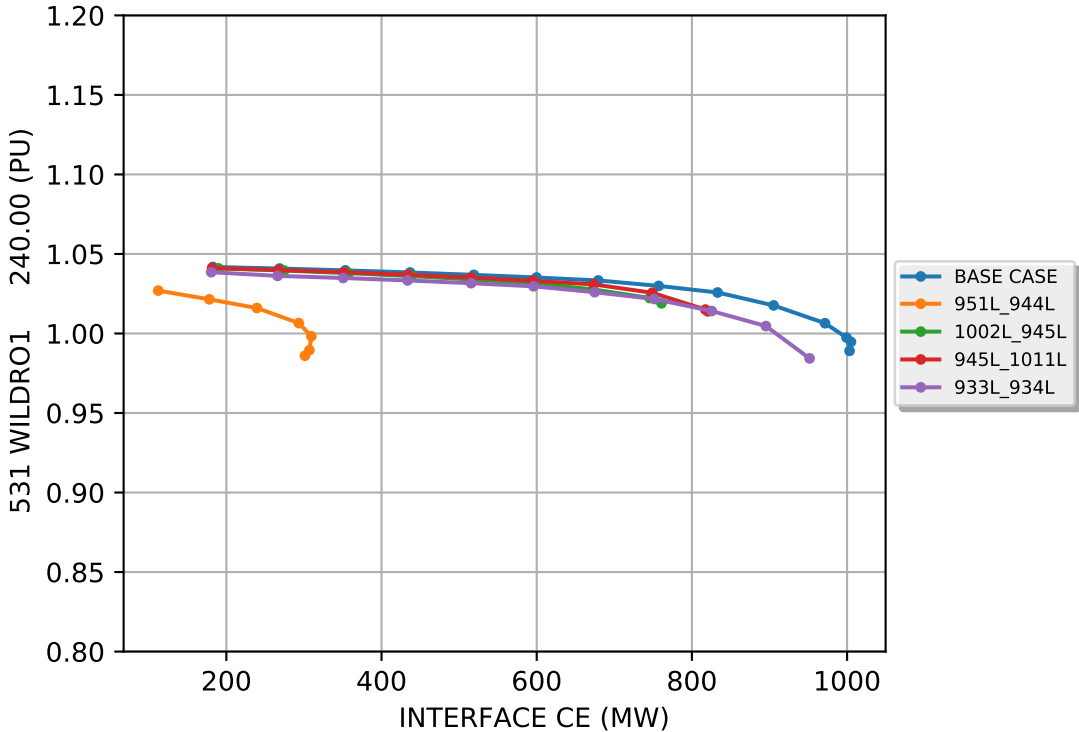


Figure: E-4-79

Case: M1, Option: PRE

Min Voltage: 0.98 PU, Min Margin: 175.8%

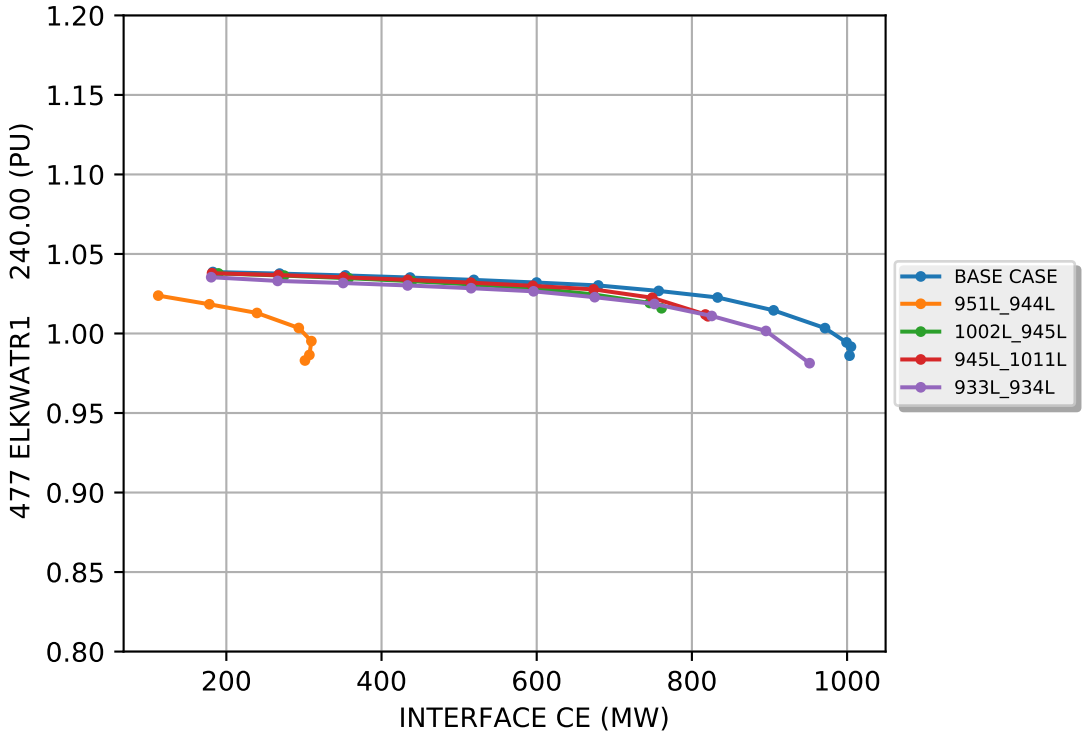


Figure: E-4-80

Case: M1, Option: PRE

Min Voltage: 0.96 PU, Min Margin: 175.8%

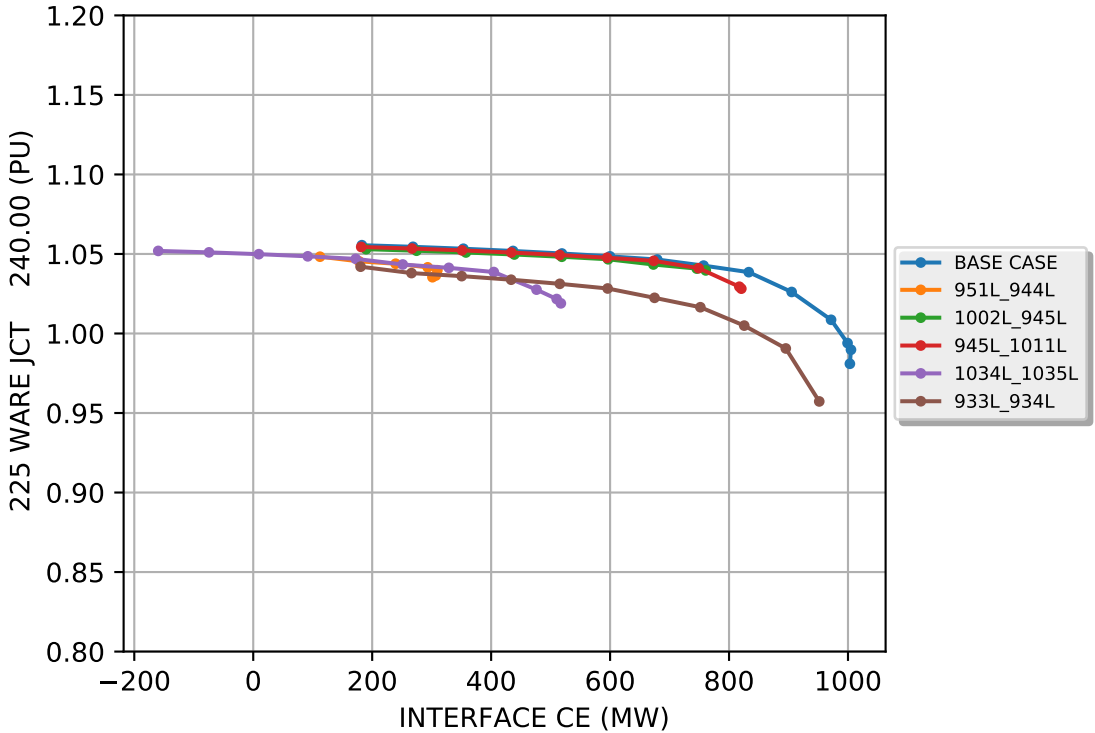


Figure: E-4-81

Case: M5, Option: PRE

Min Voltage: 0.87 PU, Min Margin: 15.4%

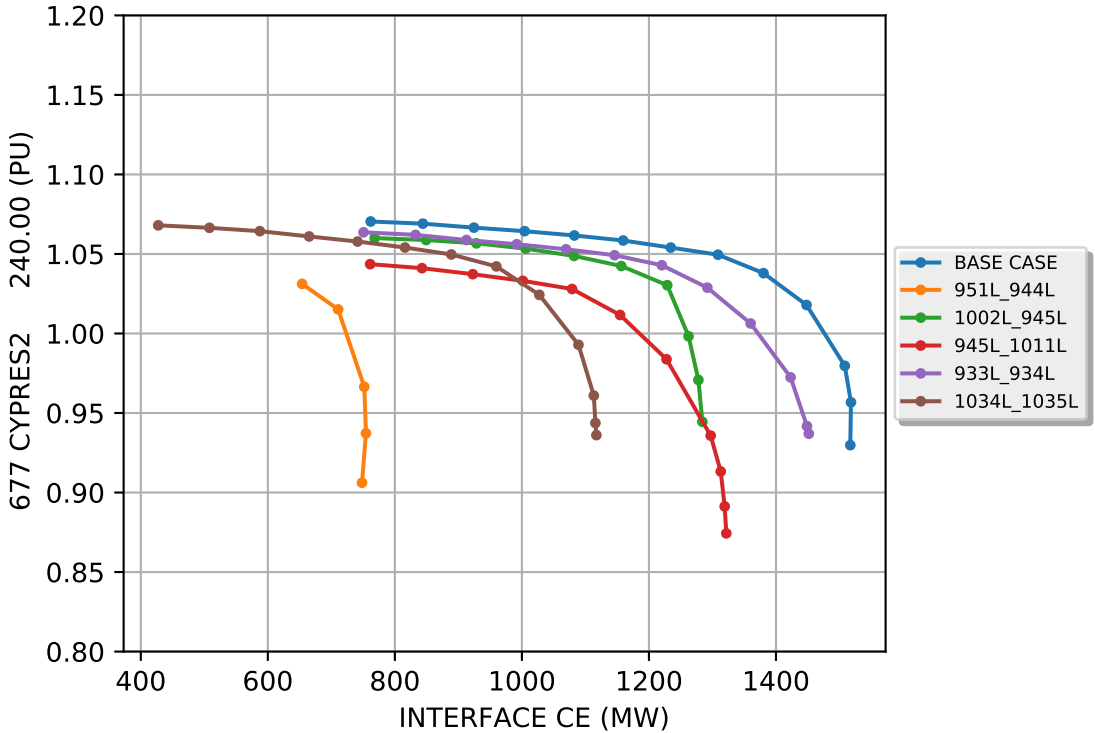


Figure: E-4-82

Case: M5, Option: PRE

Min Voltage: 0.91 PU, Min Margin: 15.4%

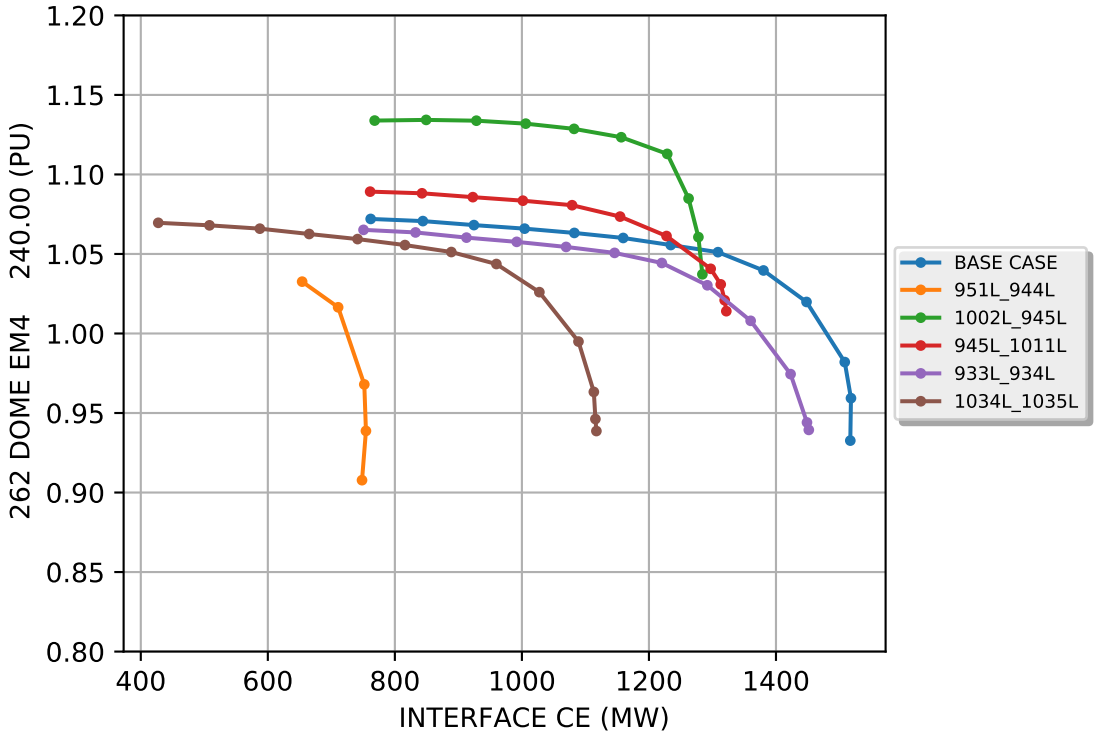


Figure: E-4-83

Case: M5, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 15.4%

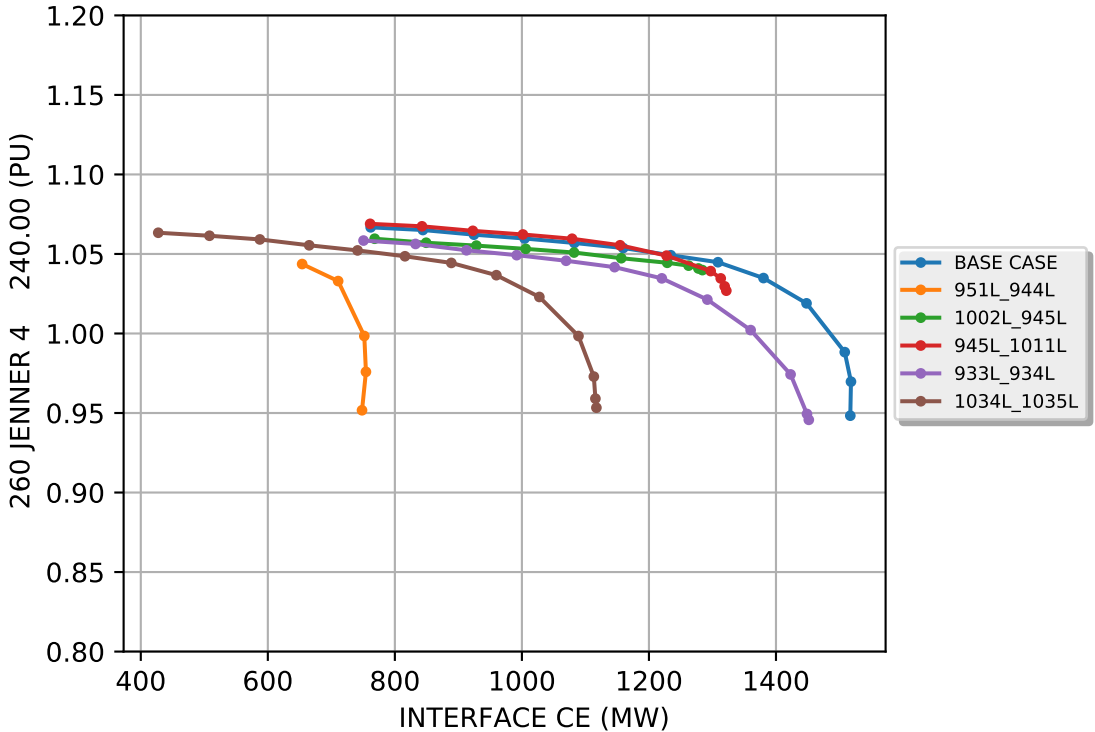


Figure: E-4-84

Case: M5, Option: PRE

Min Voltage: 0.96 PU, Min Margin: 15.4%

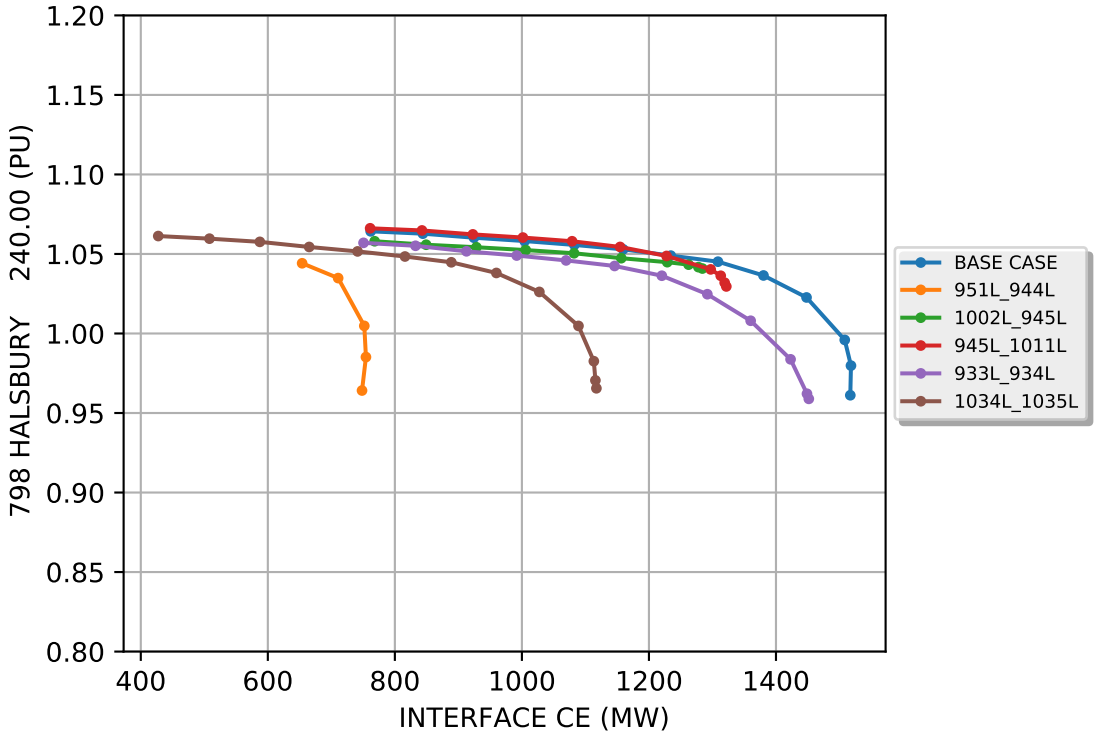


Figure: E-4-85

Case: M5, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 15.4%

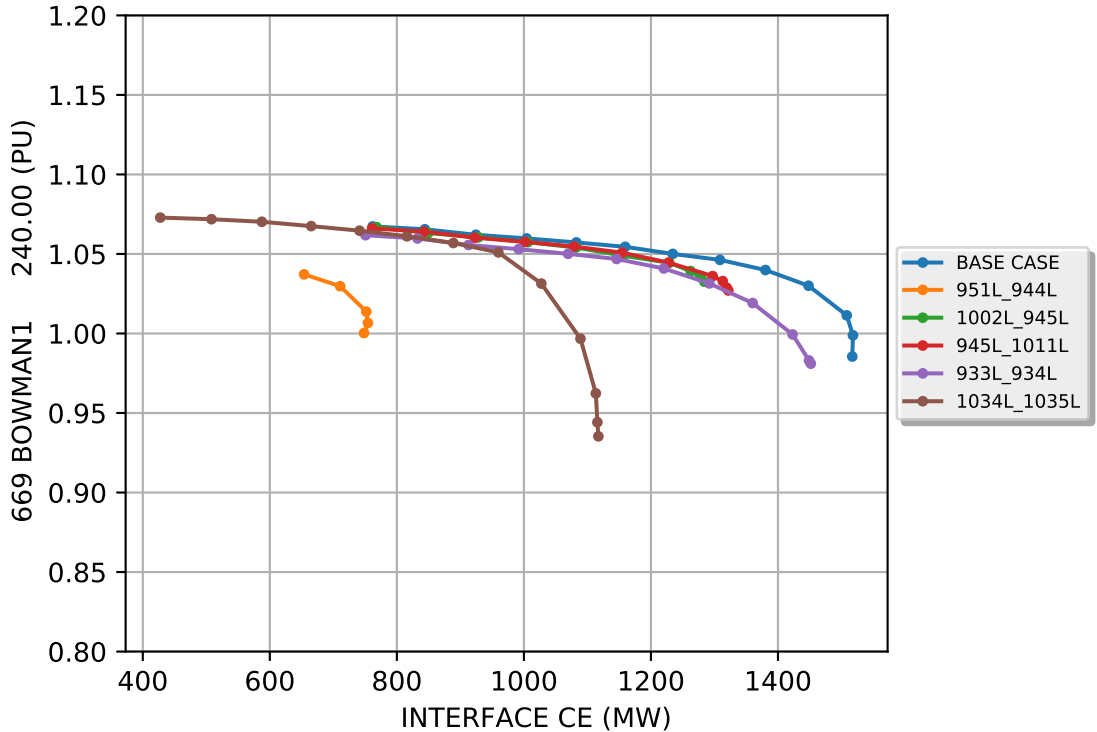


Figure: E-4-86

Case: M5, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 15.4%

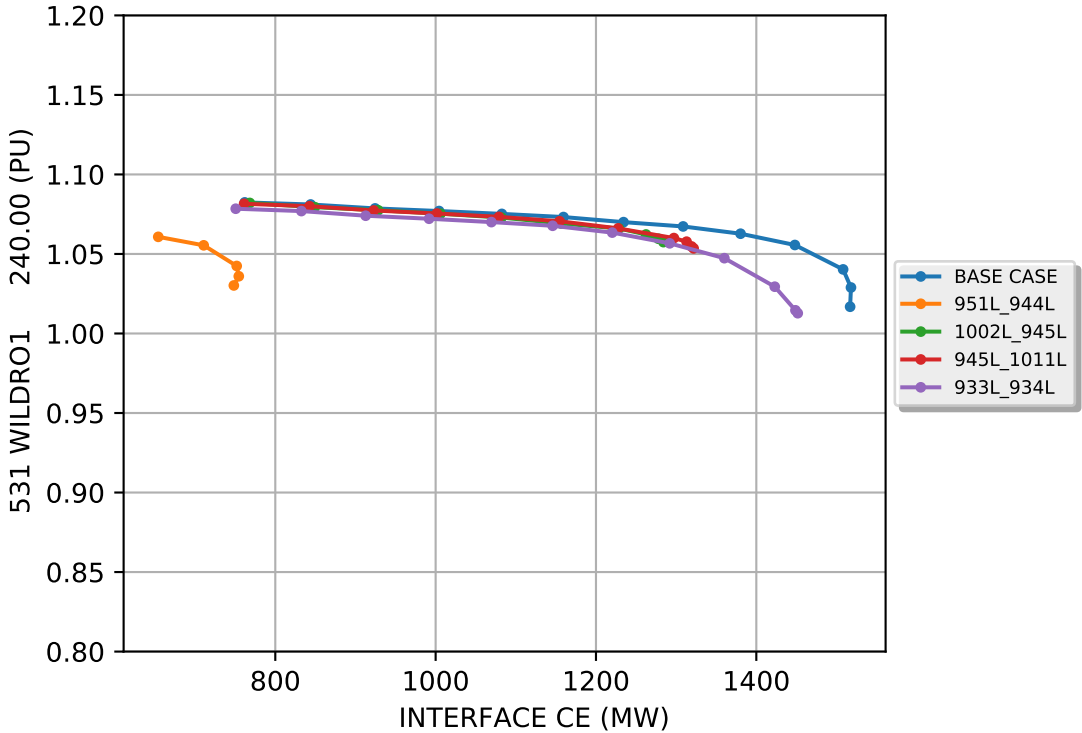


Figure: E-4-87

Case: M5, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 15.4%

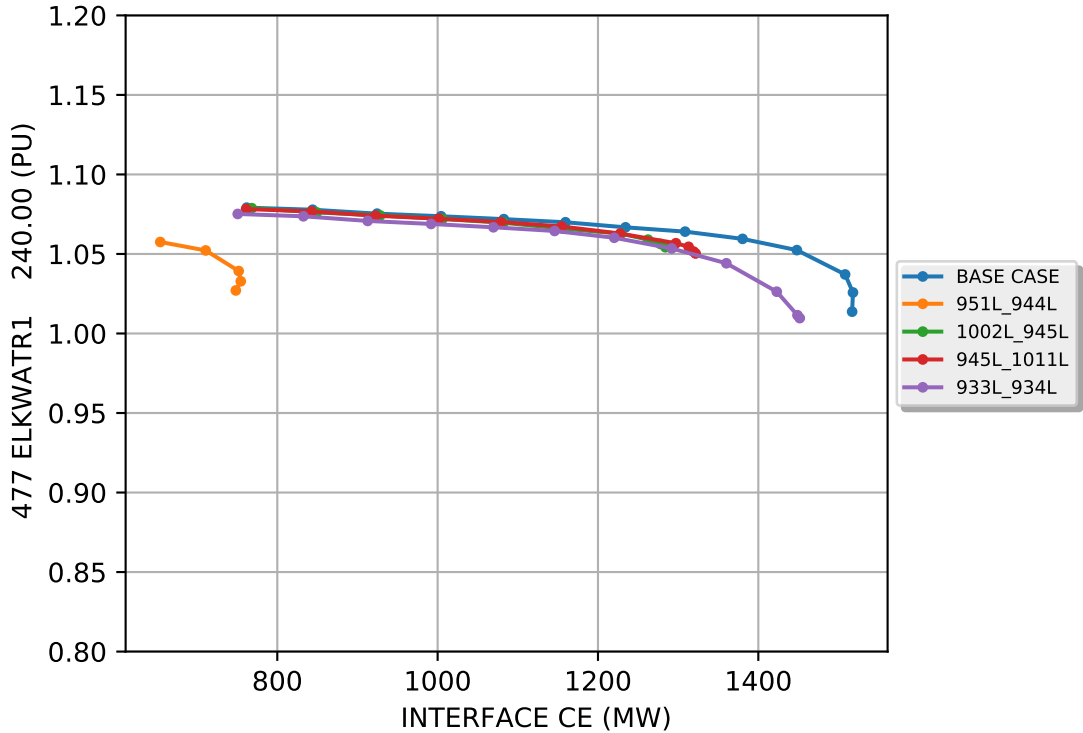


Figure: E-4-88

Case: M5, Option: PRE

Min Voltage: 0.96 PU, Min Margin: 15.4%

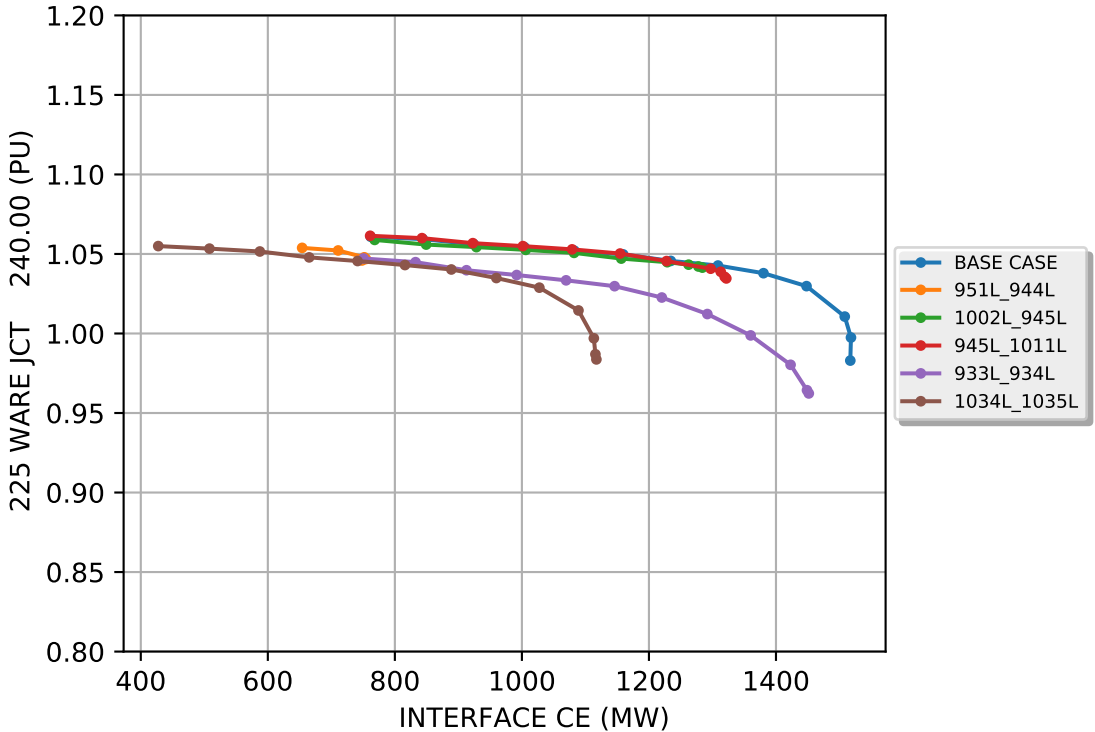


Figure: E-4-89

Case: M2, Option: PRE

Min Voltage: 0.92 PU, Min Margin: 110.7%

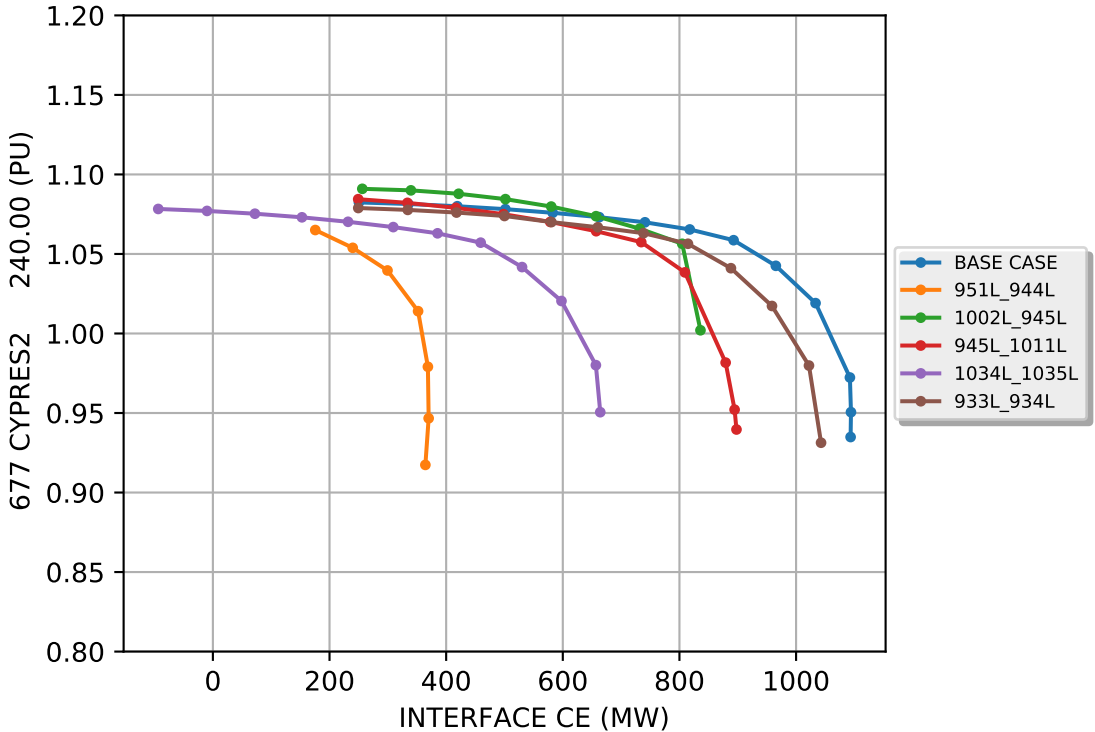


Figure: E-4-90

Case: M2, Option: PRE

Min Voltage: 0.92 PU, Min Margin: 110.7%

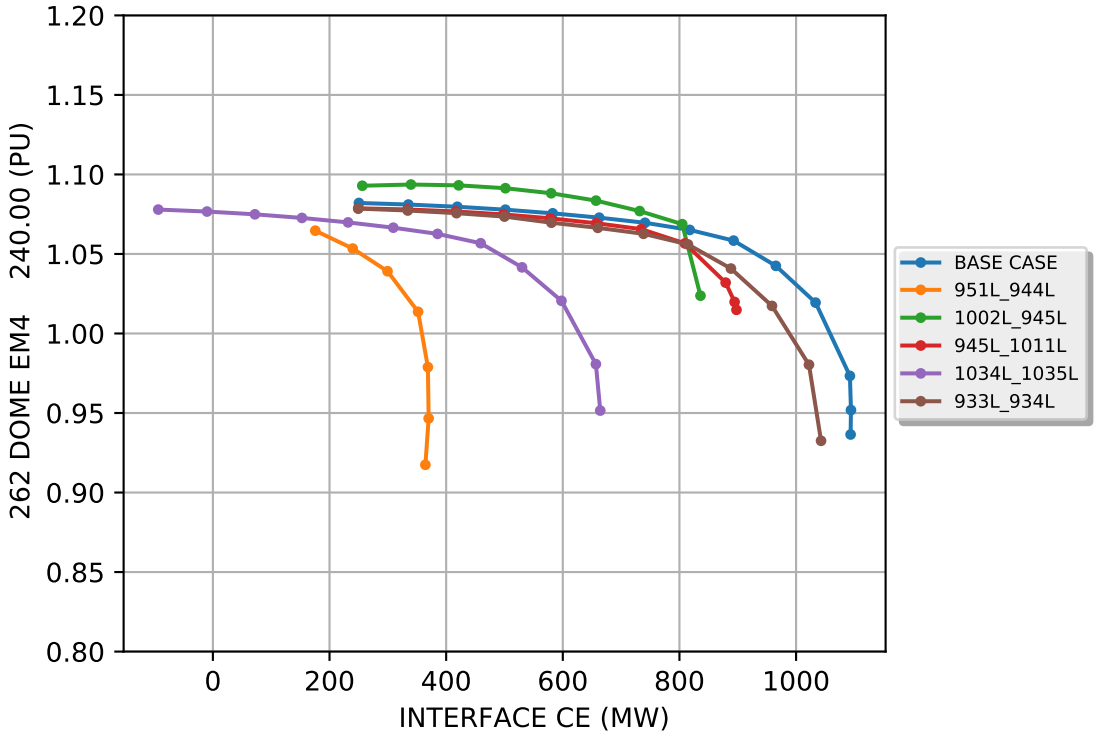


Figure: E-4-91

Case: M2, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 110.7%

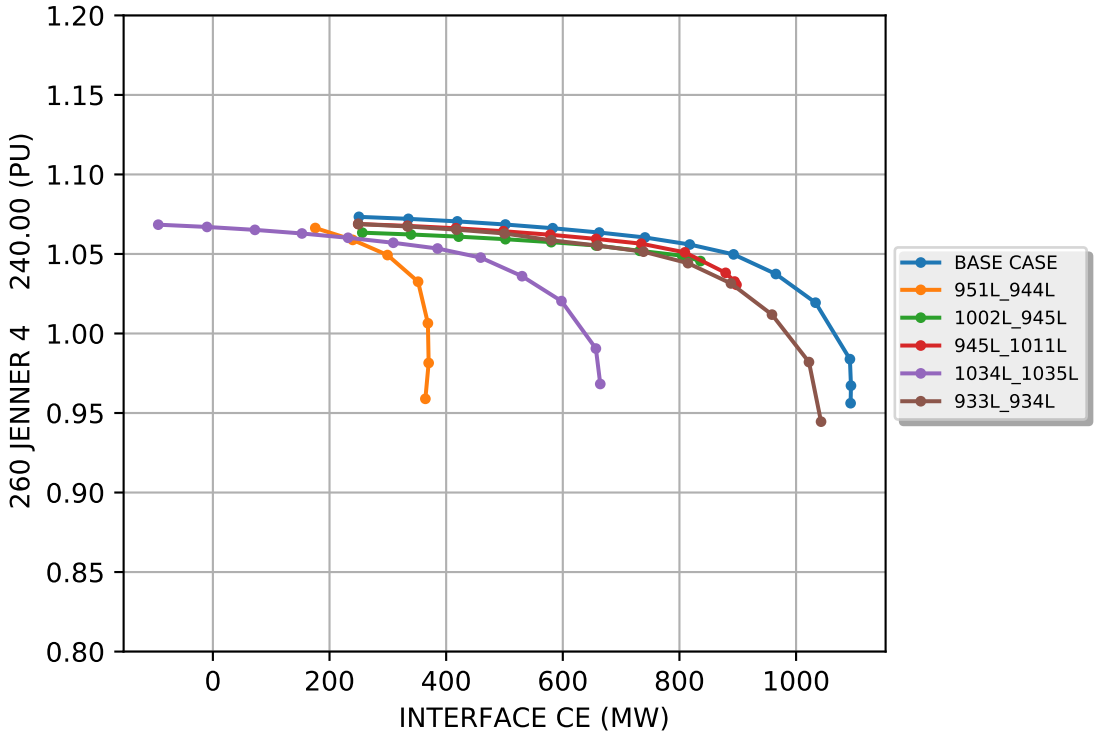


Figure: E-4-92

Case: M2, Option: PRE

Min Voltage: 0.96 PU, Min Margin: 110.7%

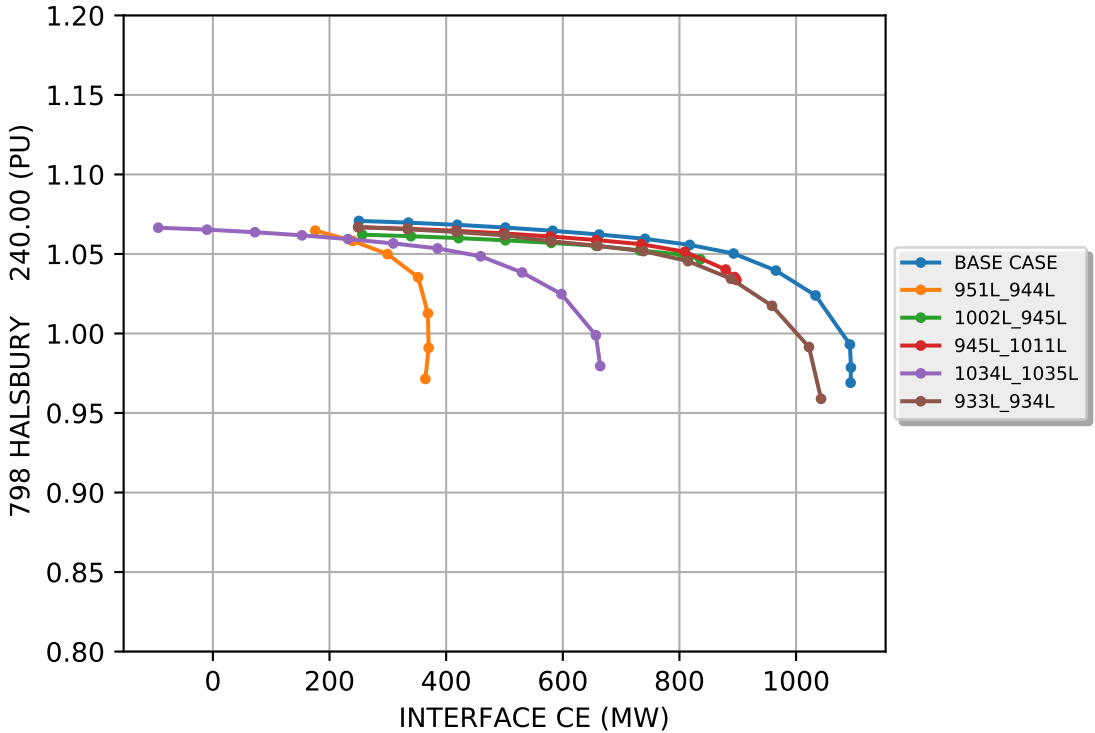


Figure: E-4-93

Case: M2, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 110.7%

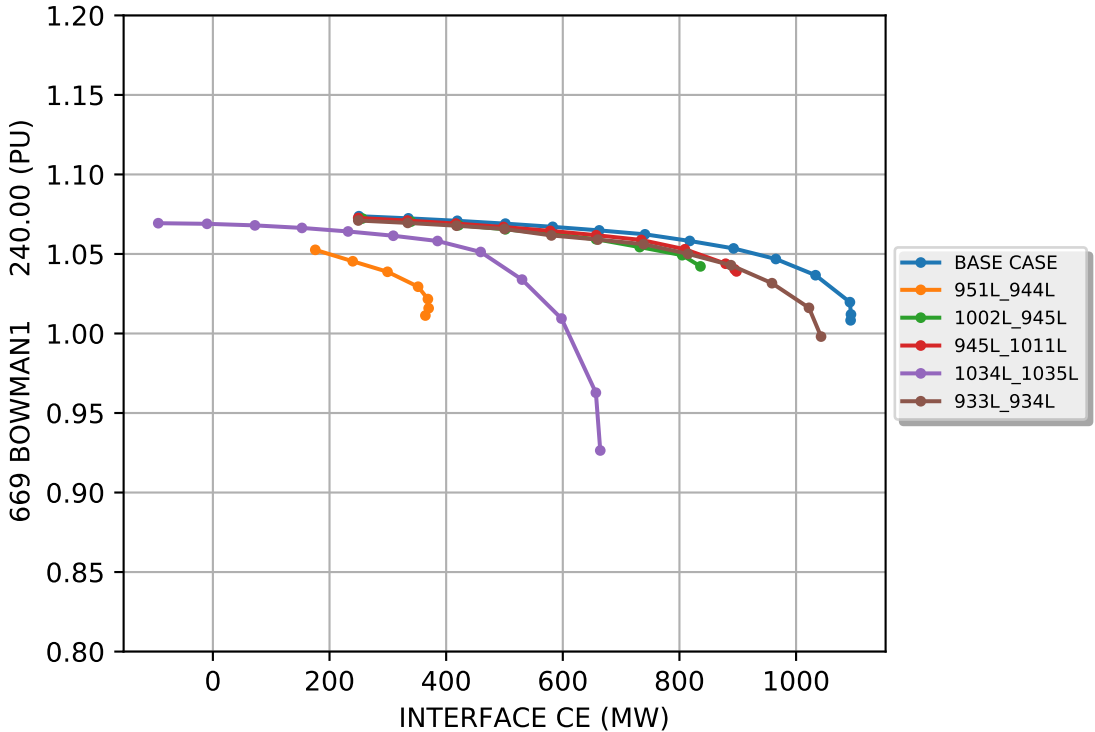


Figure: E-4-94

Case: M2, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 110.7%

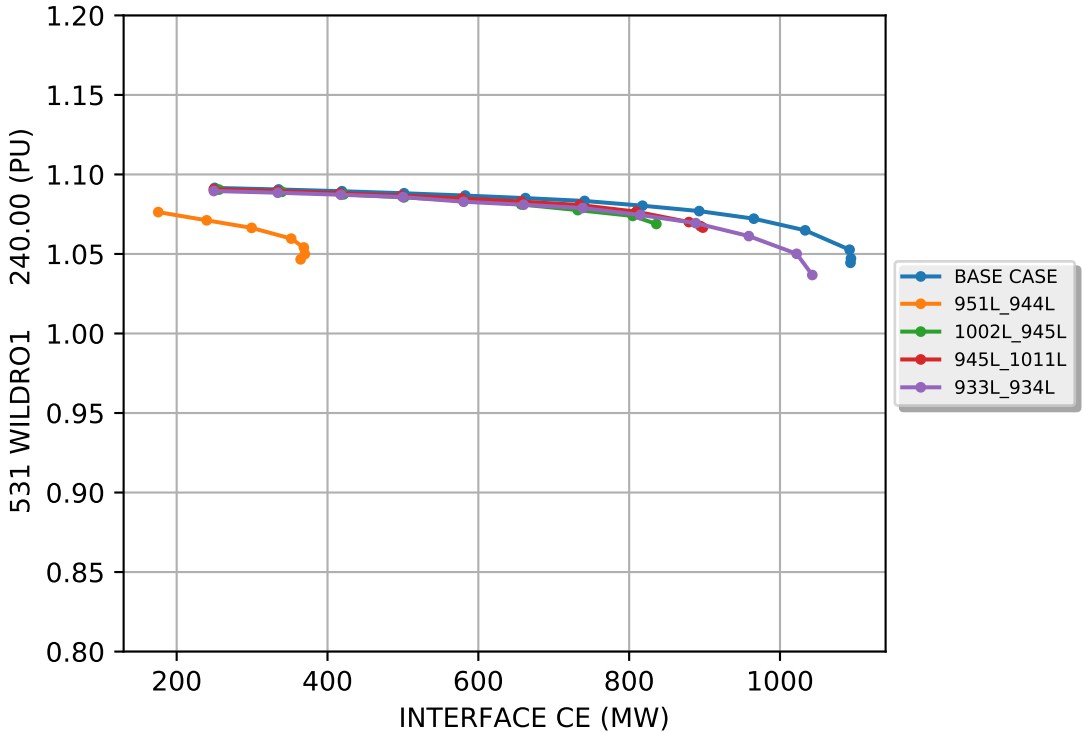


Figure: E-4-95

Case: M2, Option: PRE

Min Voltage: 1.03 PU, Min Margin: 110.7%

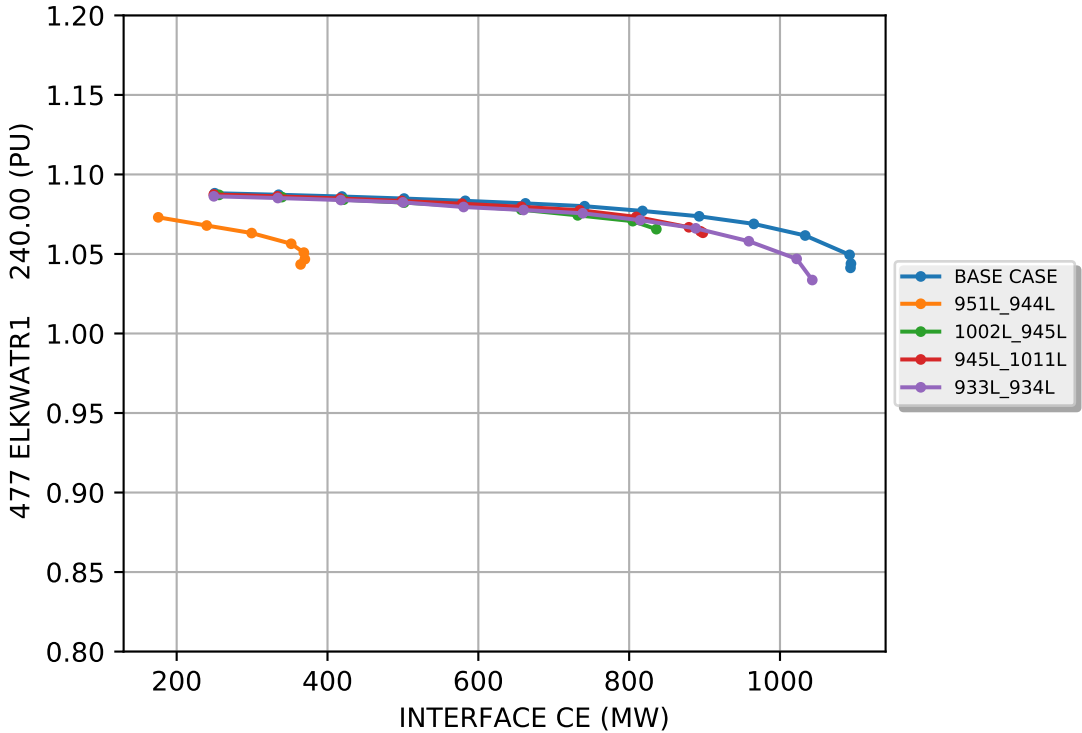


Figure: E-4-96

Case: M2, Option: PRE

Min Voltage: 0.97 PU, Min Margin: 110.7%

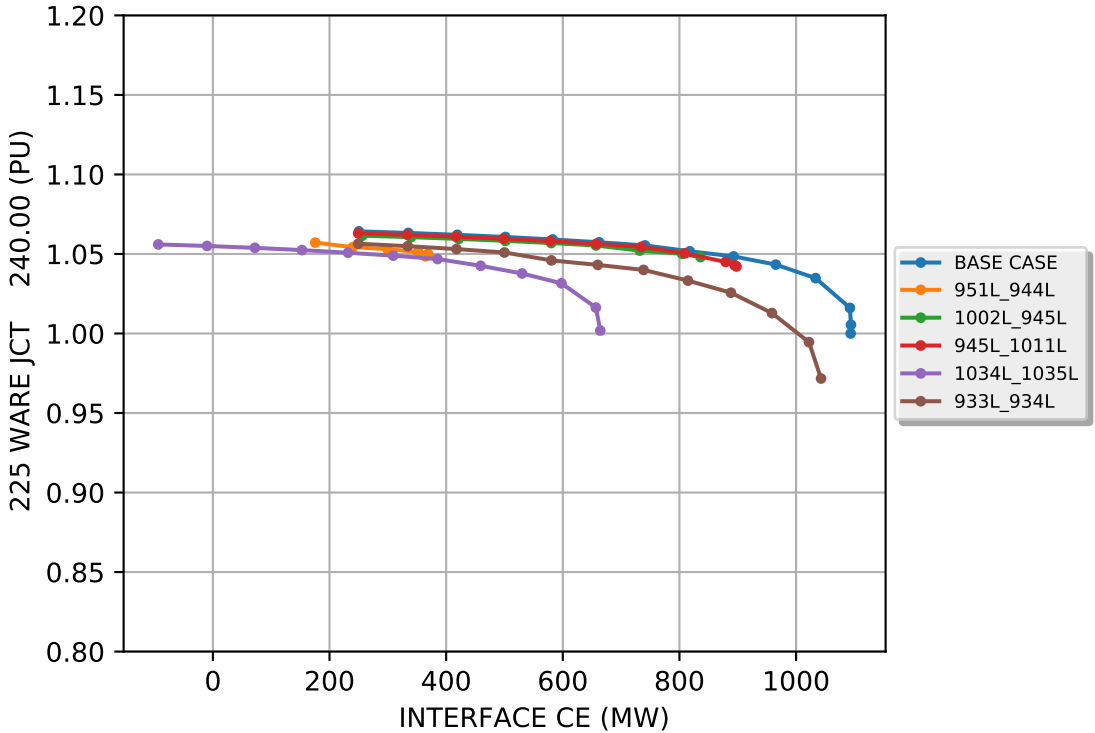


Figure: E-4-97

Case: M3, Option: PRE

Min Voltage: 0.90 PU, Min Margin: 46.9%

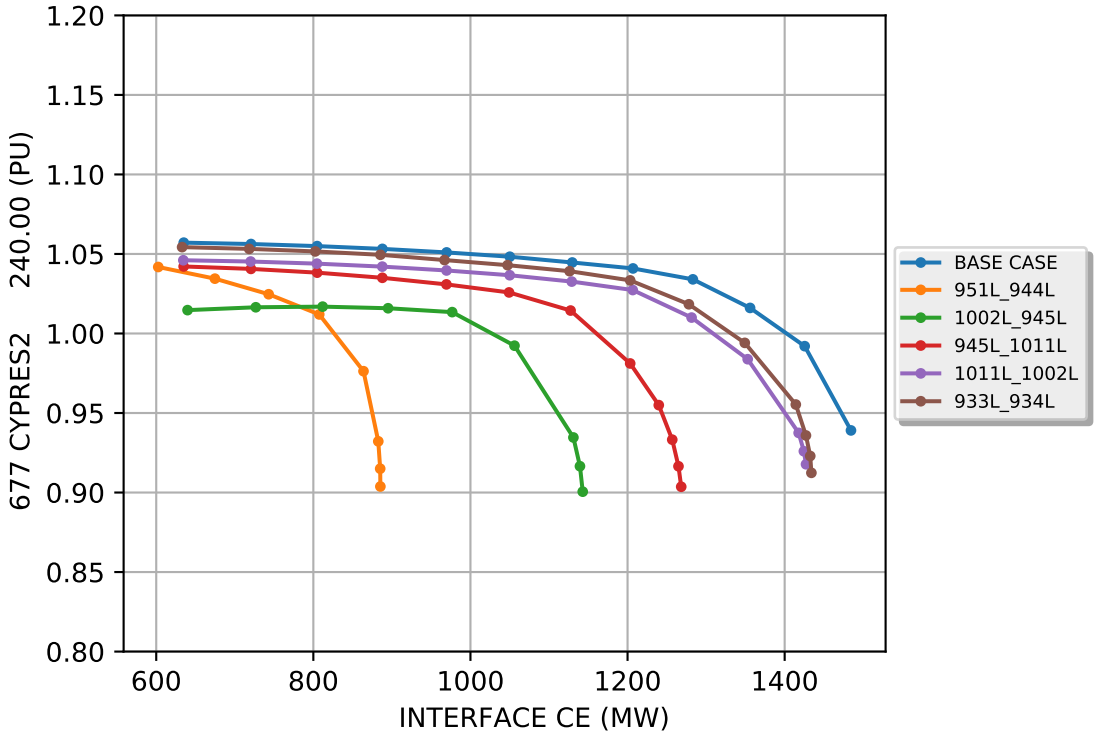


Figure: E-4-98

Case: M3, Option: PRE

Min Voltage: 0.90 PU, Min Margin: 46.9%

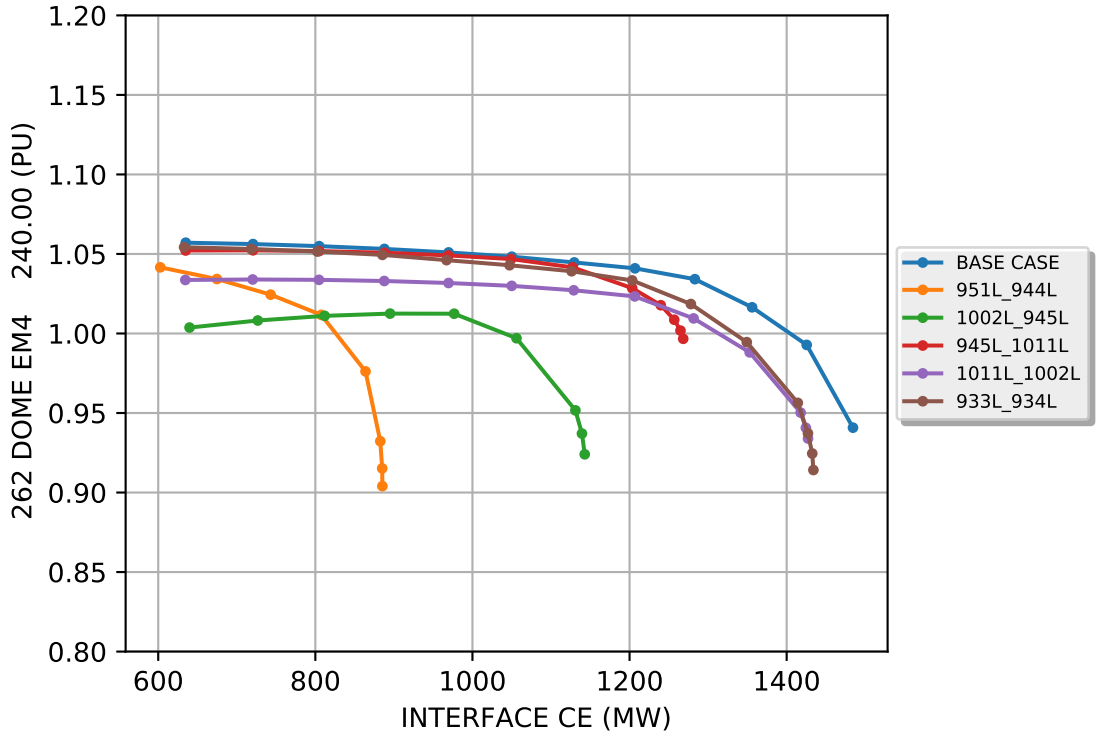


Figure: E-4-99

Case: M3, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 46.9%

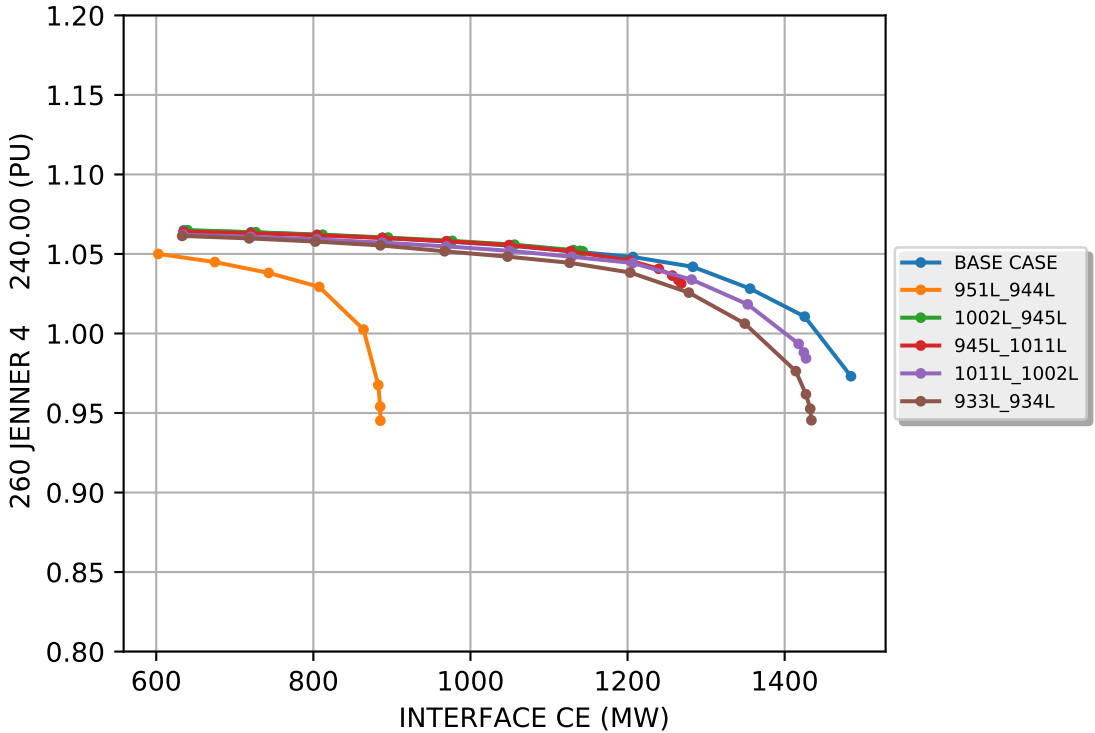


Figure: E-4-100

Case: M3, Option: PRE

Min Voltage: 0.96 PU, Min Margin: 46.9%

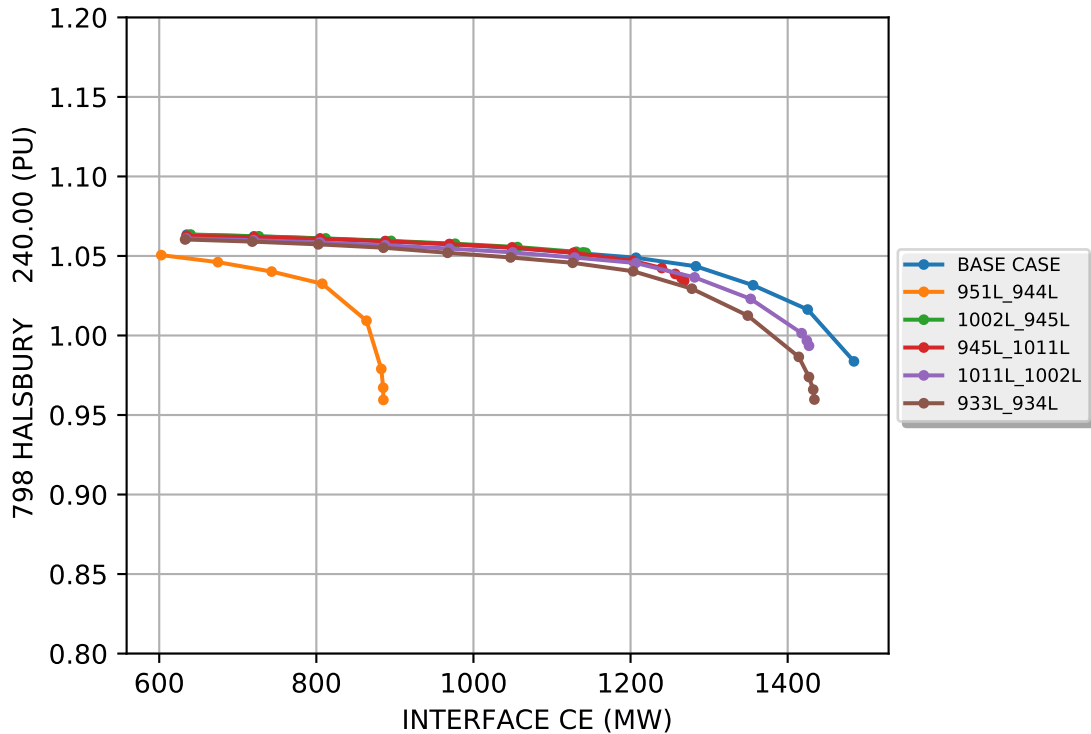


Figure: E-4-101

Case: M3, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 46.9%

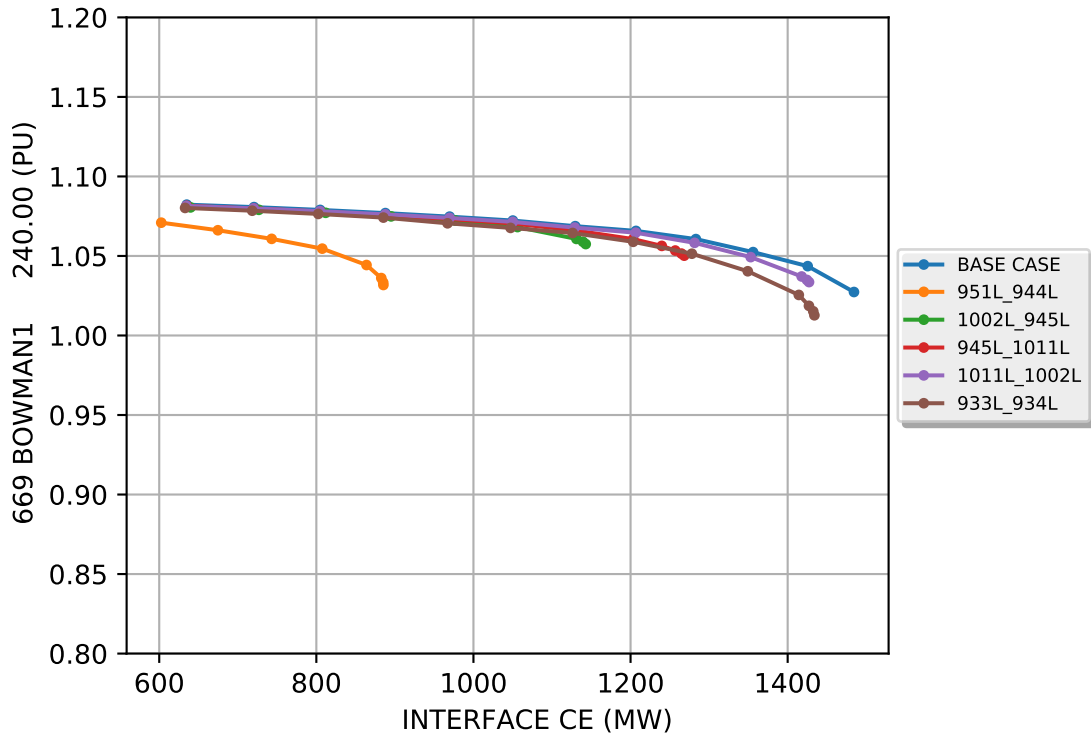


Figure: E-4-102

Case: M3, Option: PRE

Min Voltage: 1.00 PU, Min Margin: 46.9%

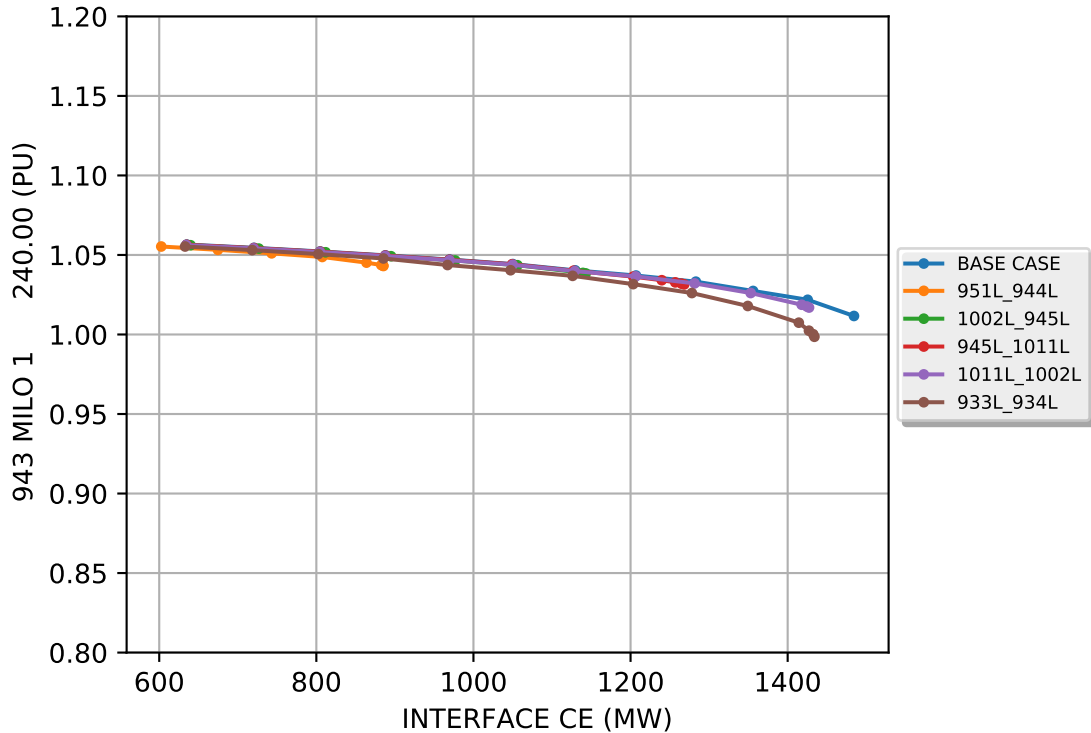


Figure: E-4-103

Case: M3, Option: PRE

Min Voltage: 1.05 PU, Min Margin: 46.9%

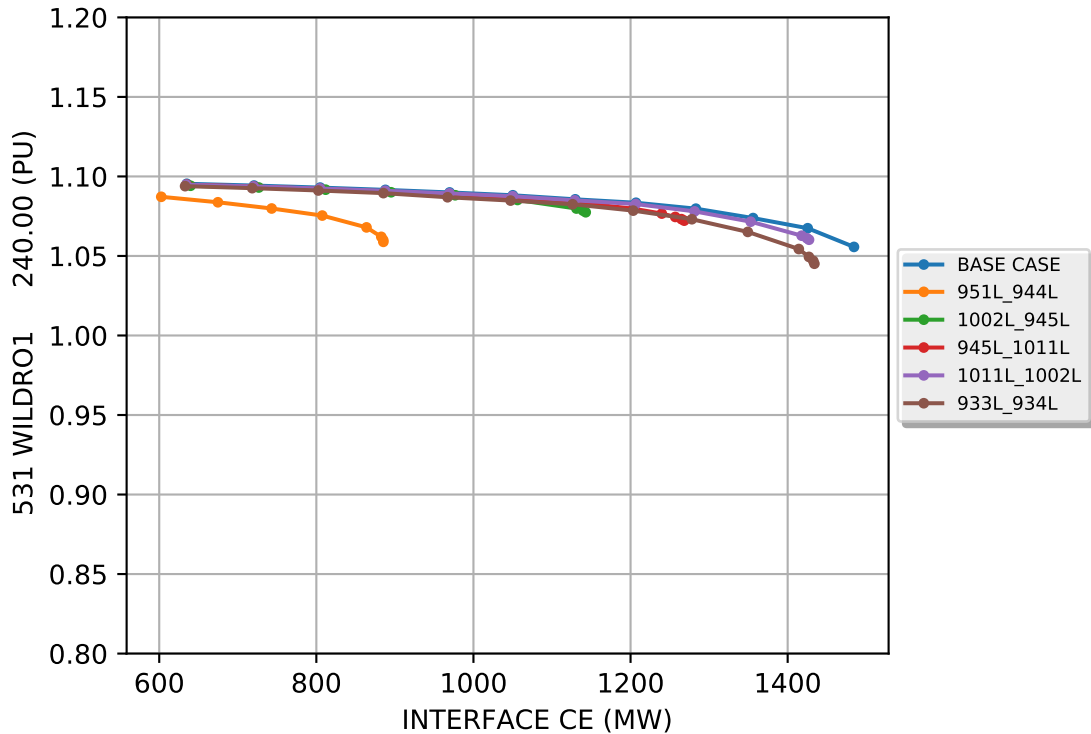


Figure: E-4-104

Case: M3, Option: PRE

Min Voltage: 0.98 PU, Min Margin: 46.9%

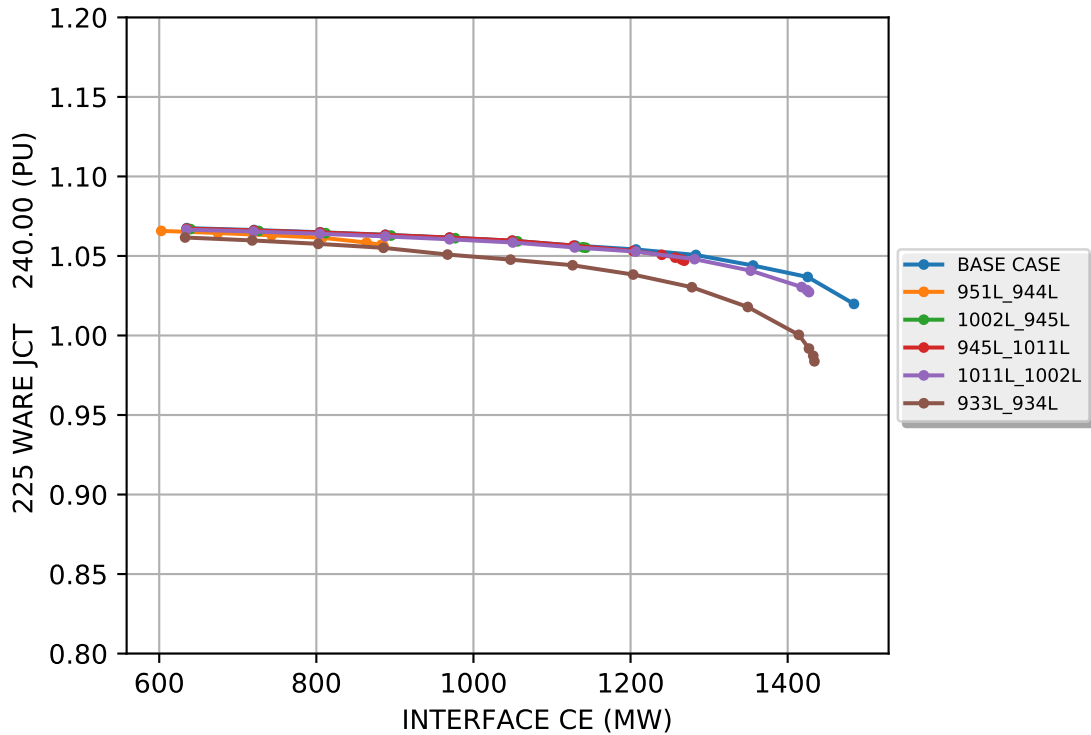


Figure: E-4-105

Case: M8, Option: PRE

Min Voltage: 0.89 PU, Min Margin: 25.9%

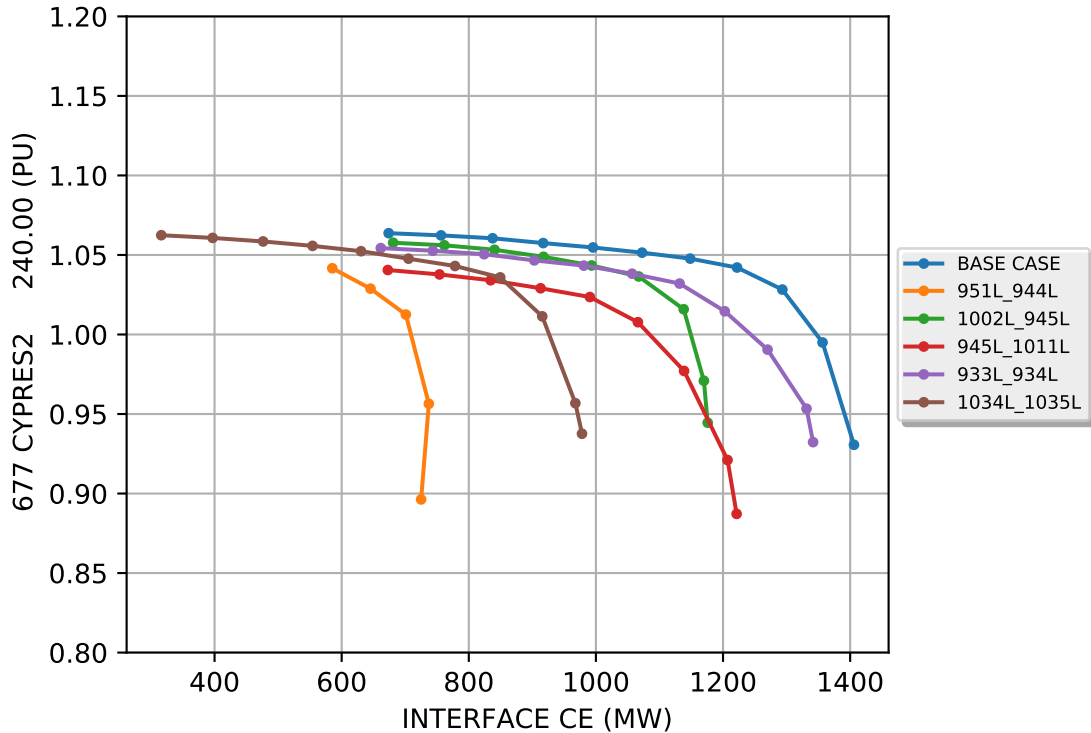


Figure: E-4-106

Case: M8, Option: PRE

Min Voltage: 0.90 PU, Min Margin: 25.9%

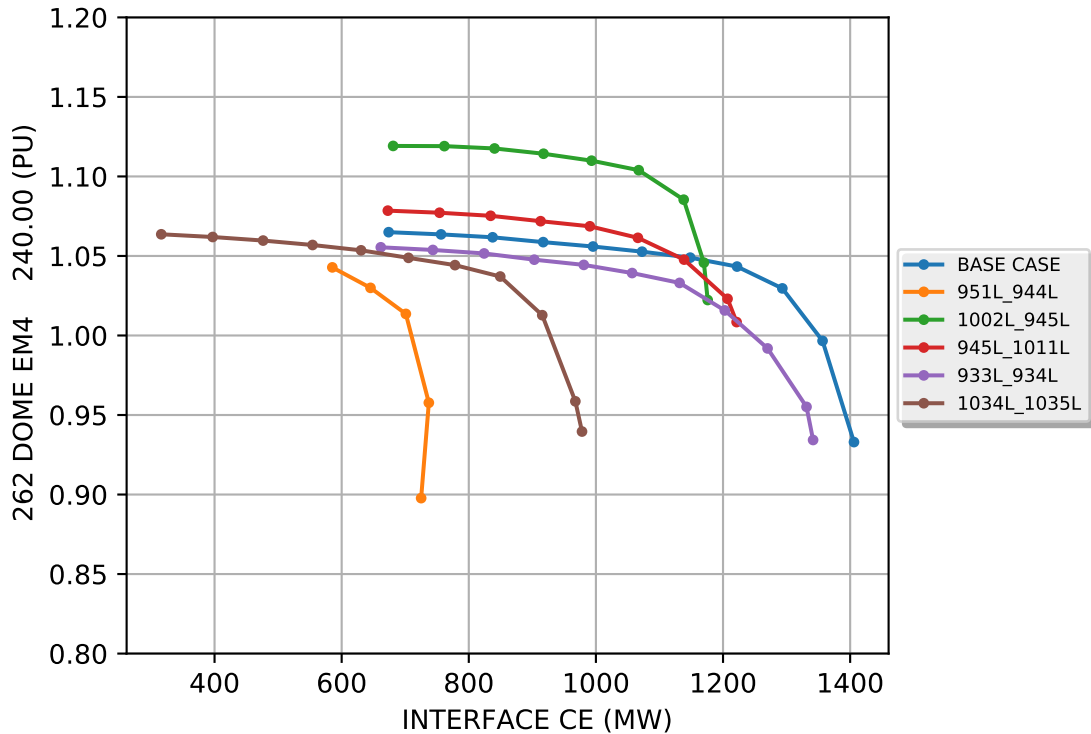


Figure: E-4-107

Case: M8, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 25.9%

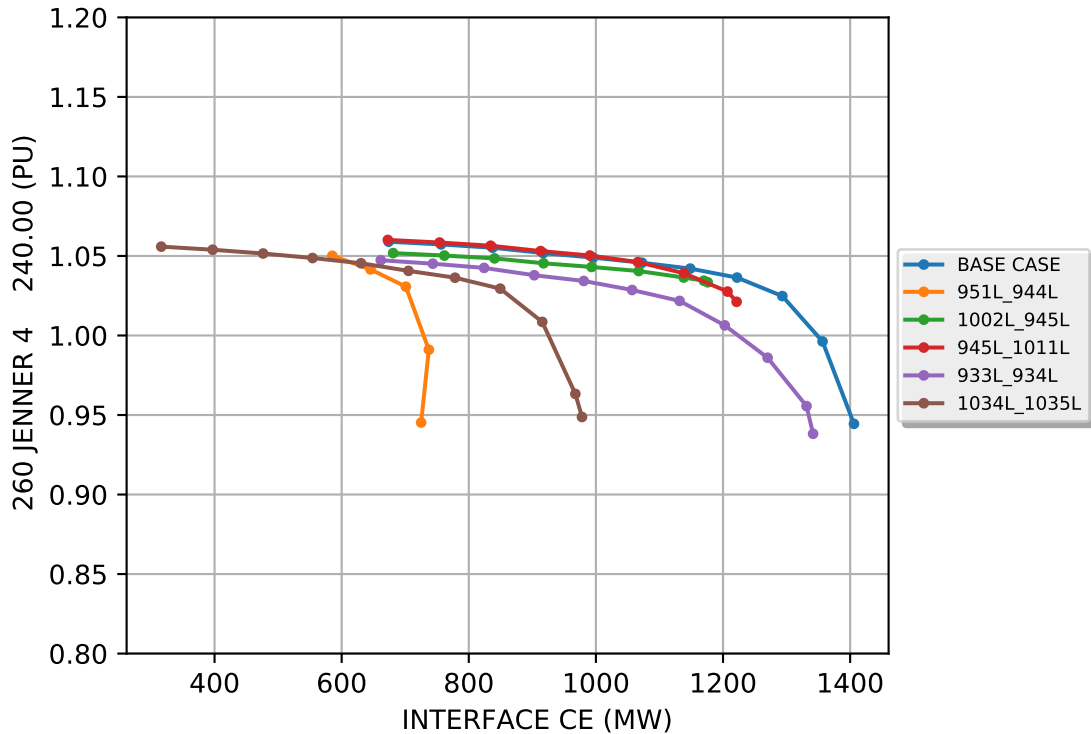


Figure: E-4-108

Case: M8, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 25.9%

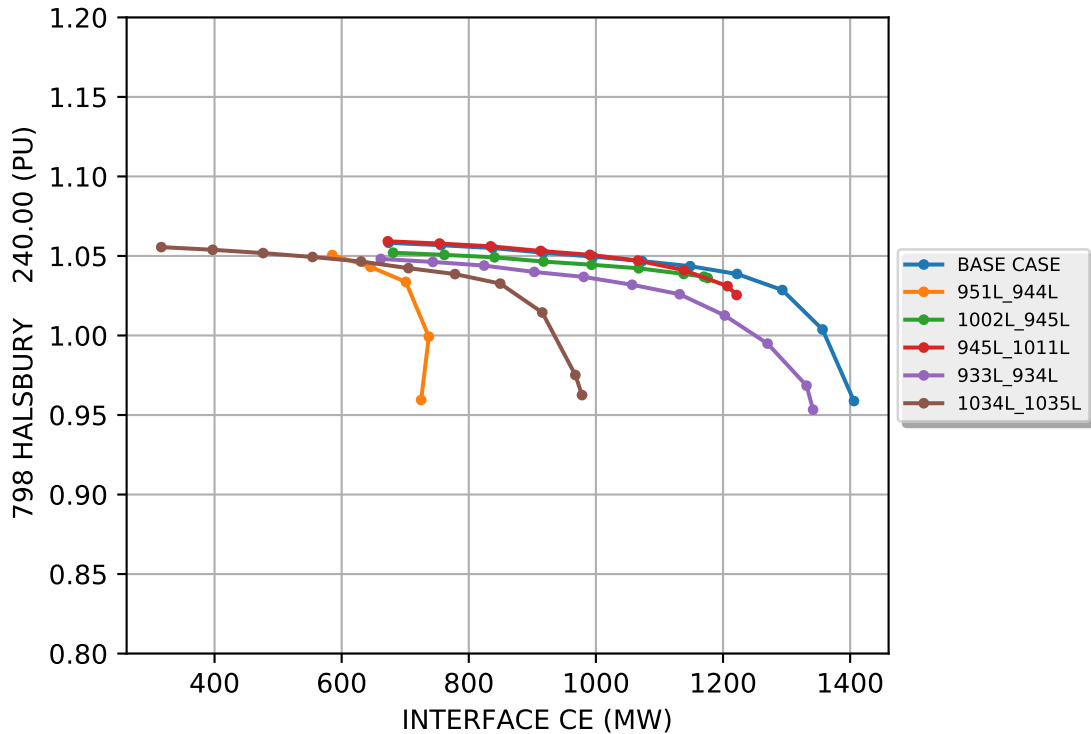


Figure: E-4-109

Case: M8, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 25.9%

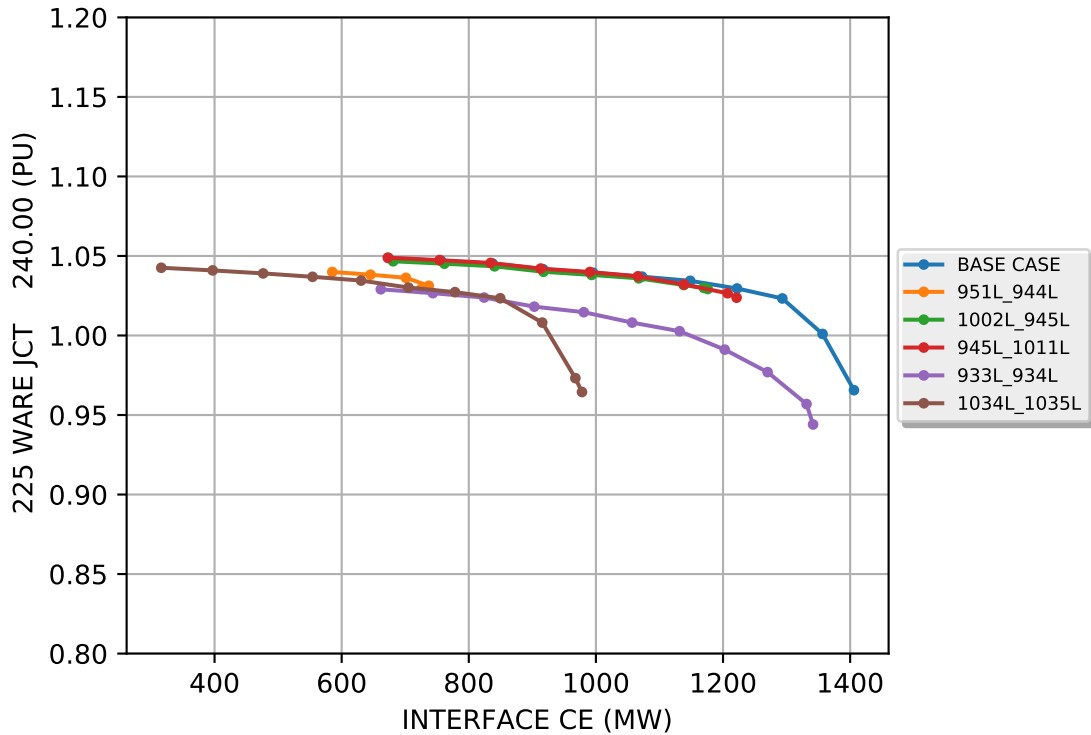


Figure: E-4-110

Case: M8, Option: PRE

Min Voltage: 0.96 PU, Min Margin: 25.9%

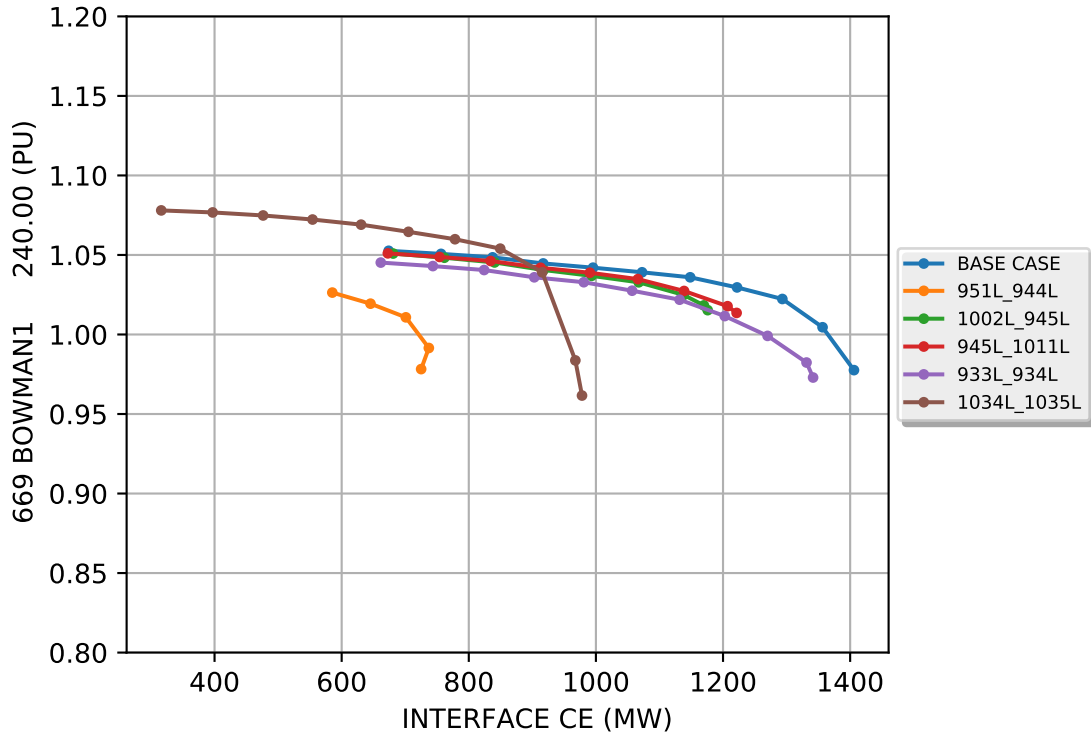


Figure: E-4-111

Case: M8, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 25.9%

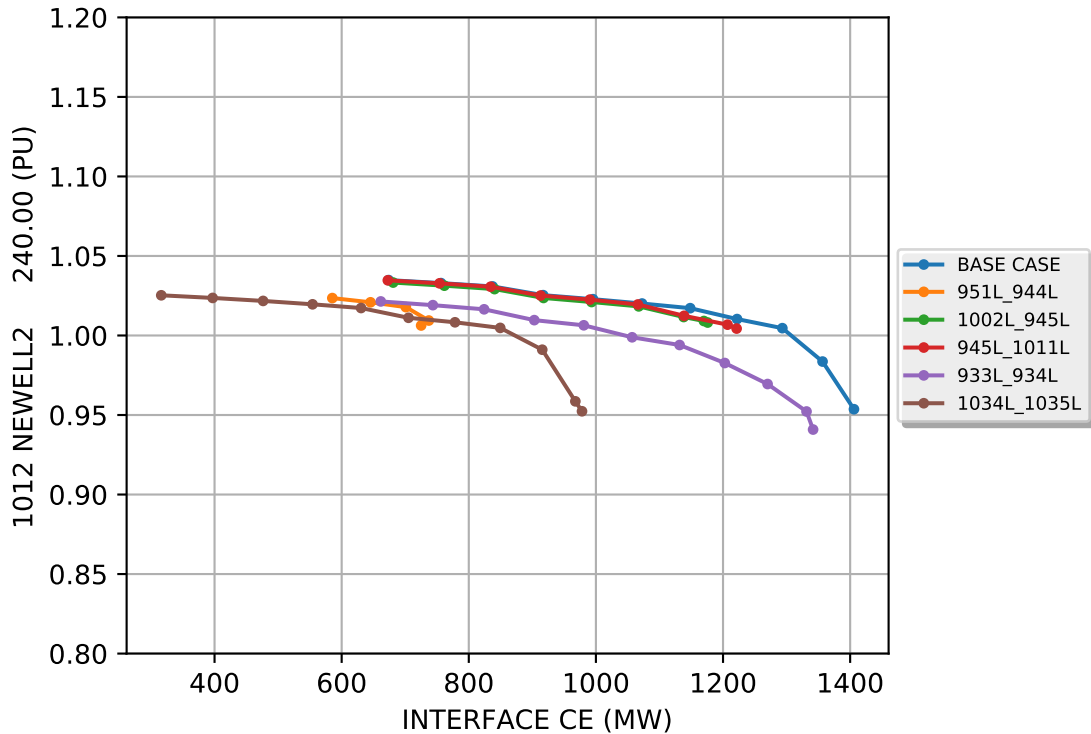


Figure: E-4-112

Case: M8, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 25.9%

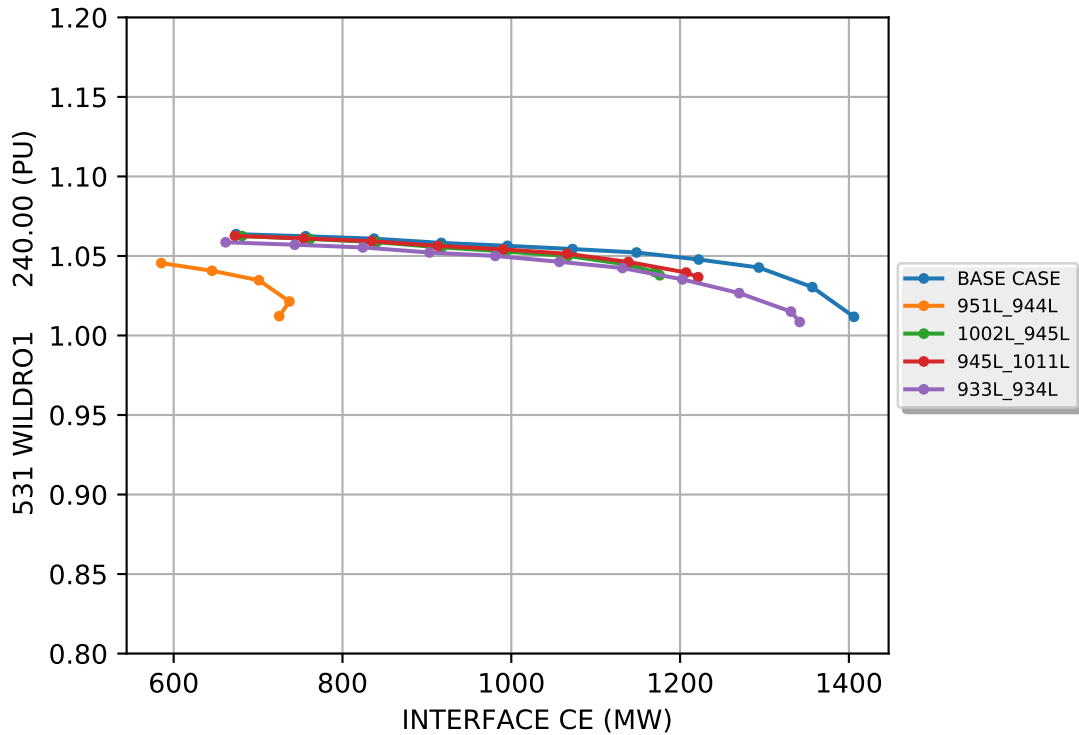


Figure: E-4-113

Case: M9, Option: PRE

Min Voltage: 0.89 PU, Min Margin: 40.1%

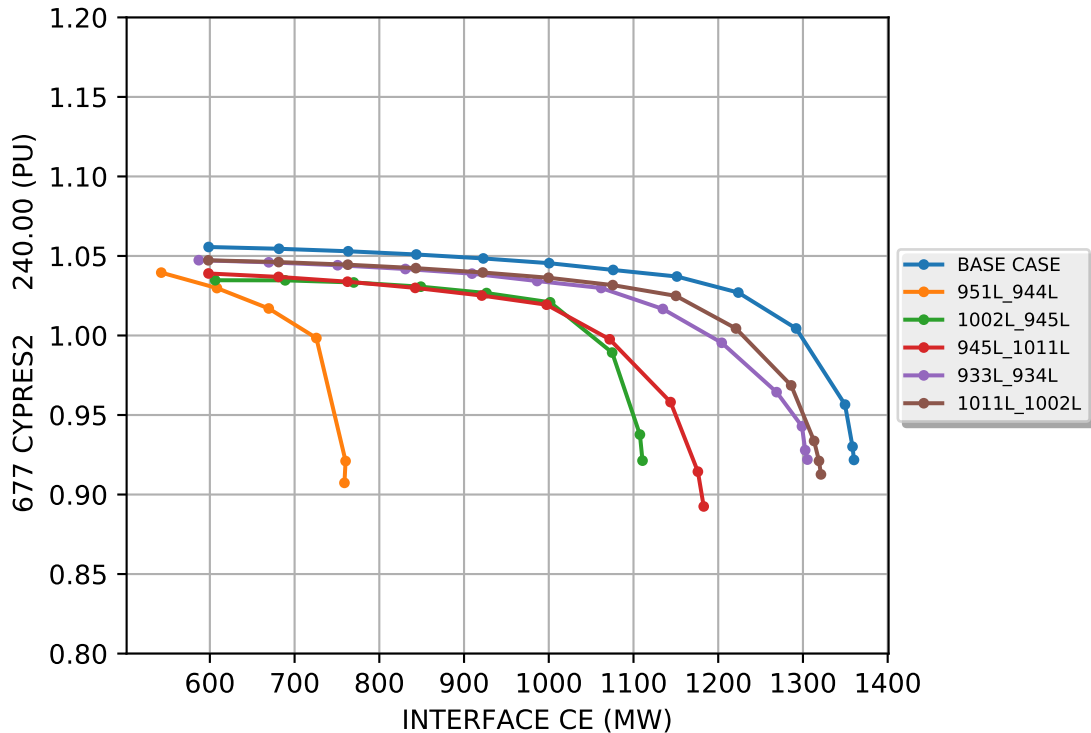


Figure: E-4-114

Case: M9, Option: PRE

Min Voltage: 0.91 PU, Min Margin: 40.1%

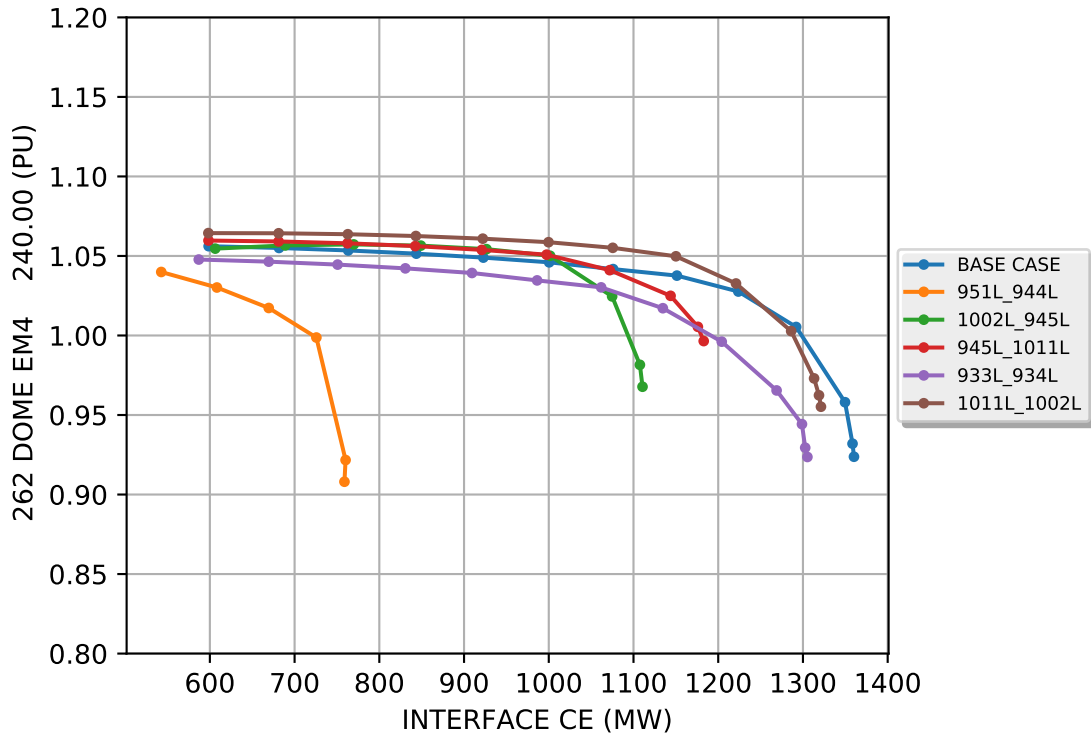


Figure: E-4-115

Case: M9, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 40.1%

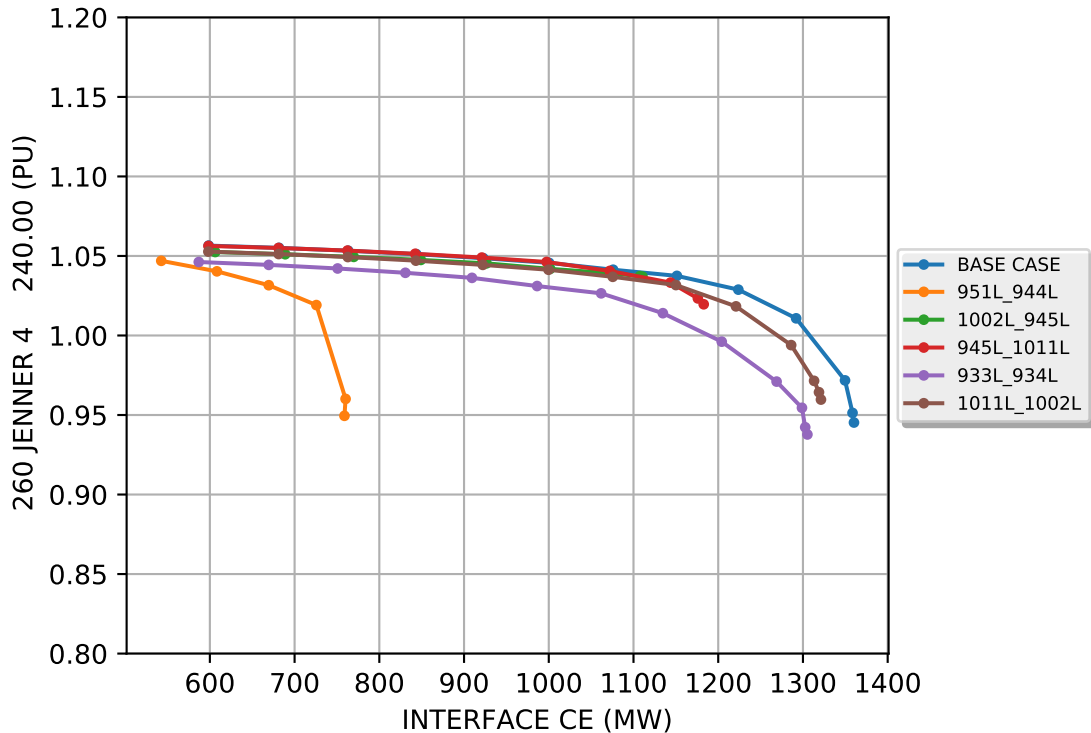


Figure: E-4-116

Case: M9, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 40.1%

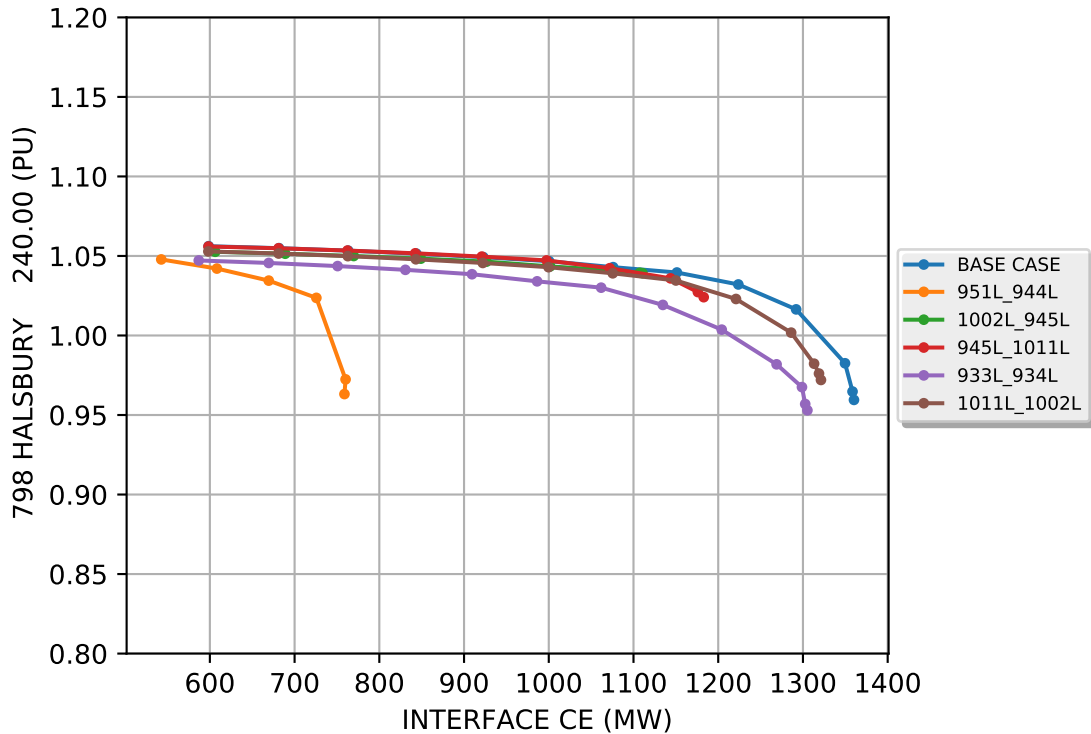


Figure: E-4-117

Case: M9, Option: PRE

Min Voltage: 0.96 PU, Min Margin: 40.1%

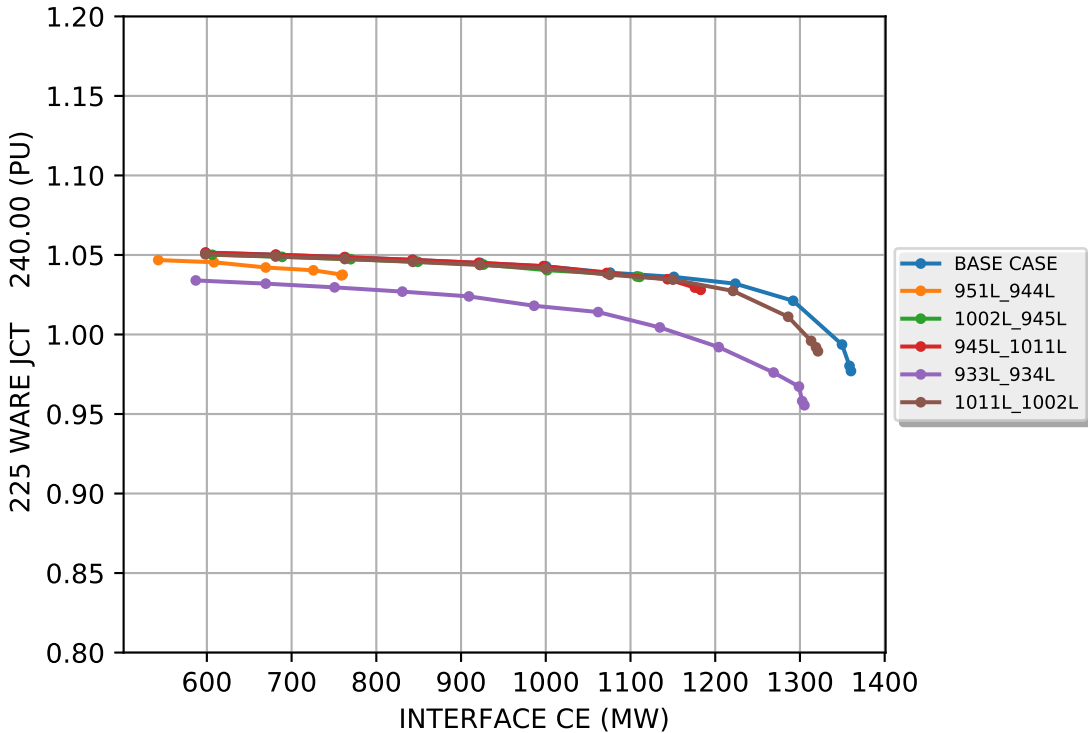


Figure: E-4-118

Case: M9, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 40.1%

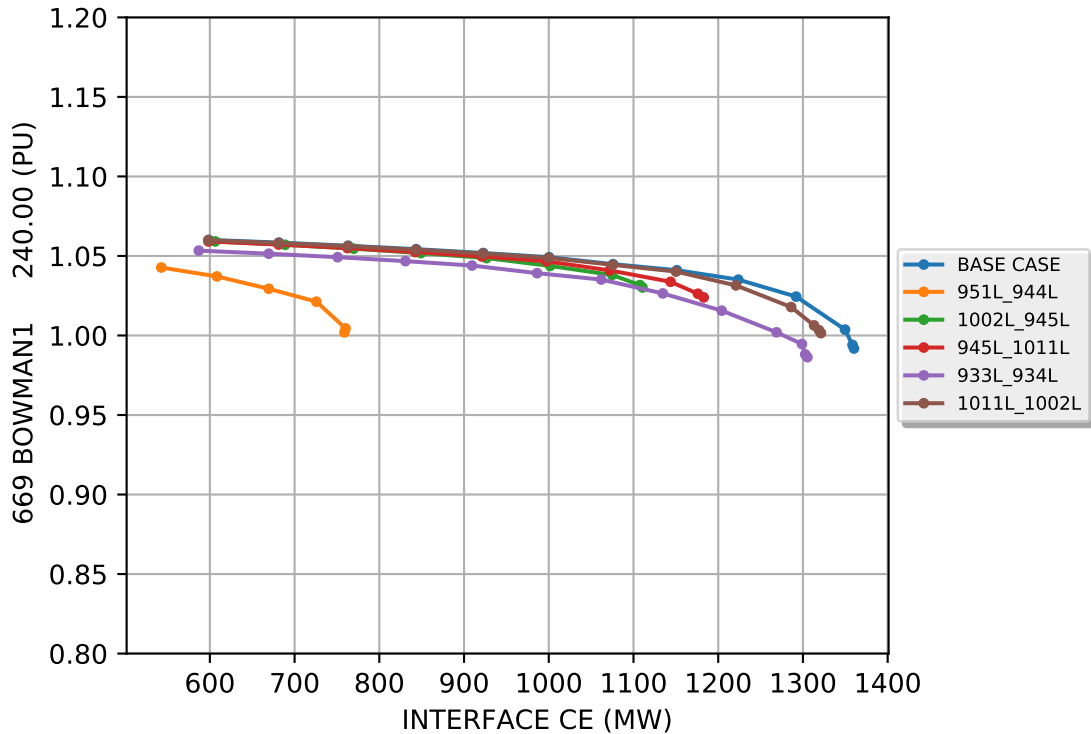


Figure: E-4-119

Case: M9, Option: PRE

Min Voltage: 1.02 PU, Min Margin: 40.1%

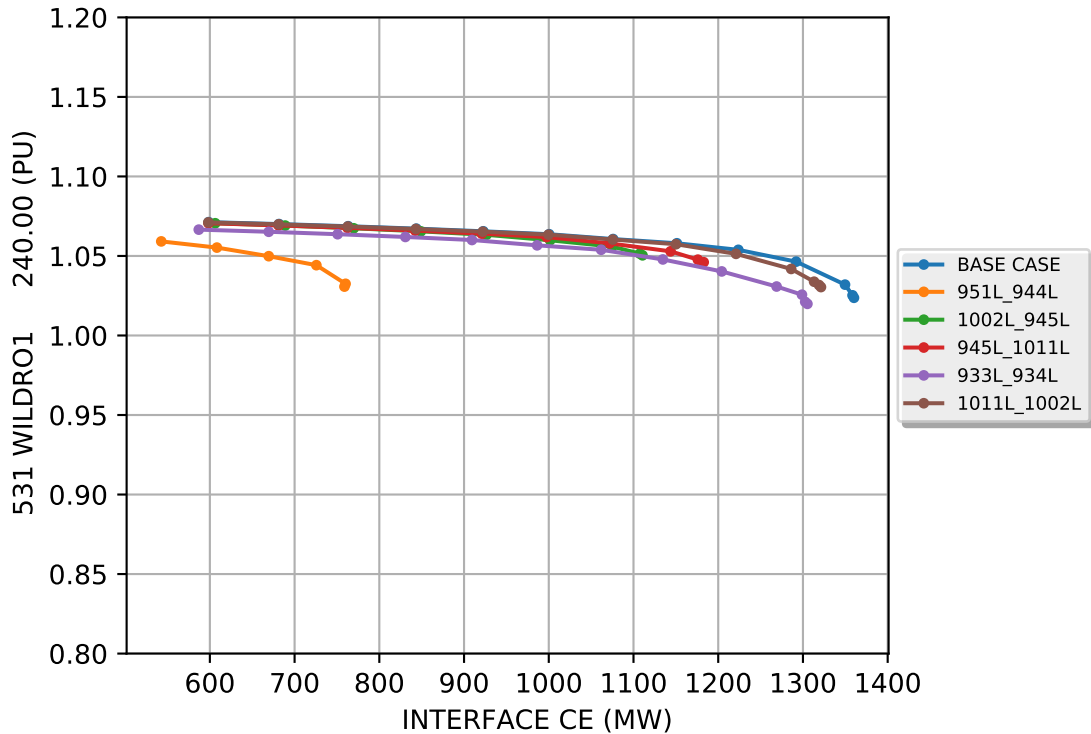


Figure: E-4-120

Case: M9, Option: PRE

Min Voltage: 1.02 PU, Min Margin: 40.1%

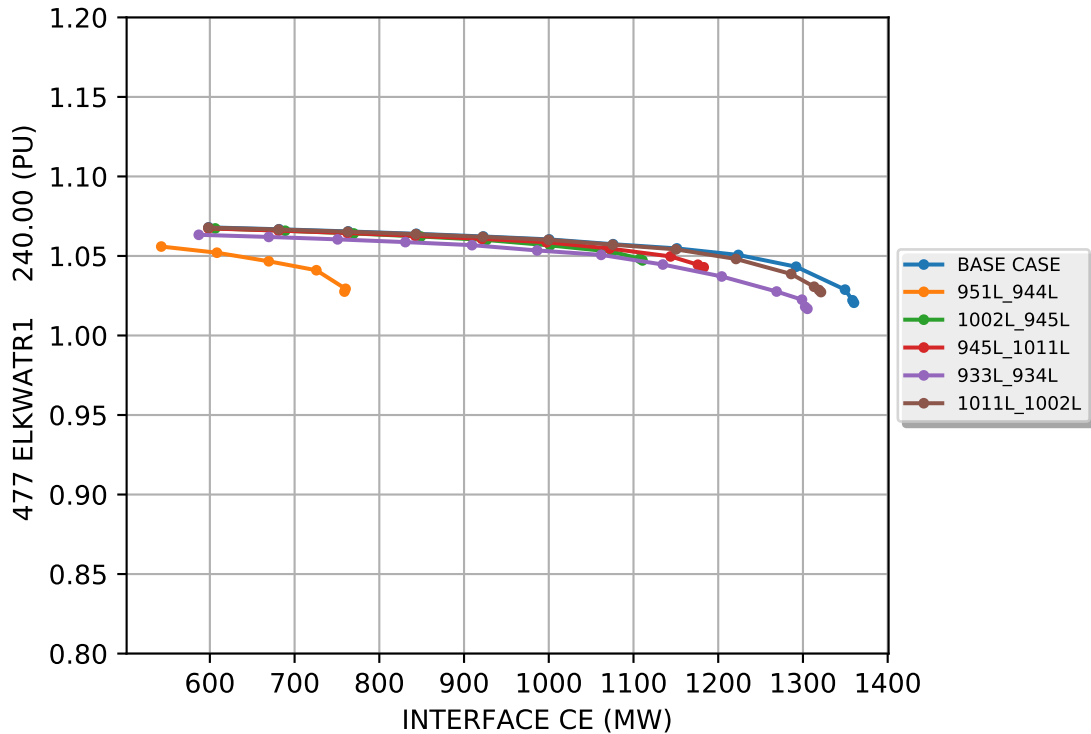


Figure: E-4-121

Case: M7, Option: PRE

Min Voltage: 0.87 PU, Min Margin: 86.1%

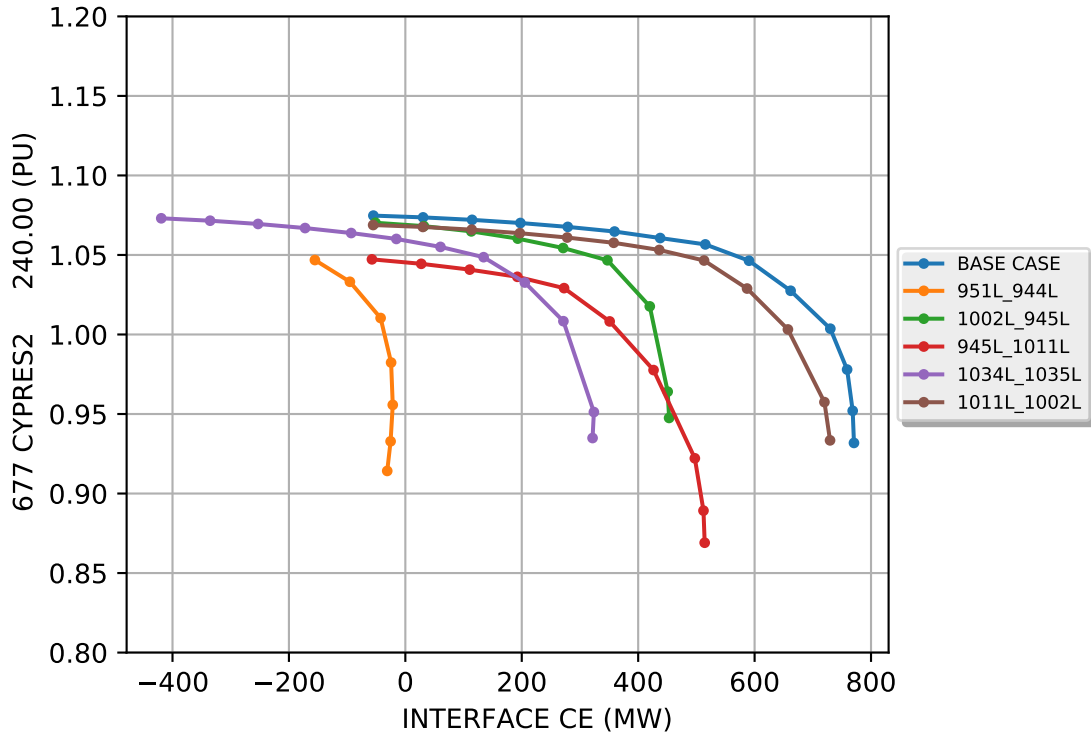


Figure: E-4-122

Case: M7, Option: PRE

Min Voltage: 0.92 PU, Min Margin: 86.1%

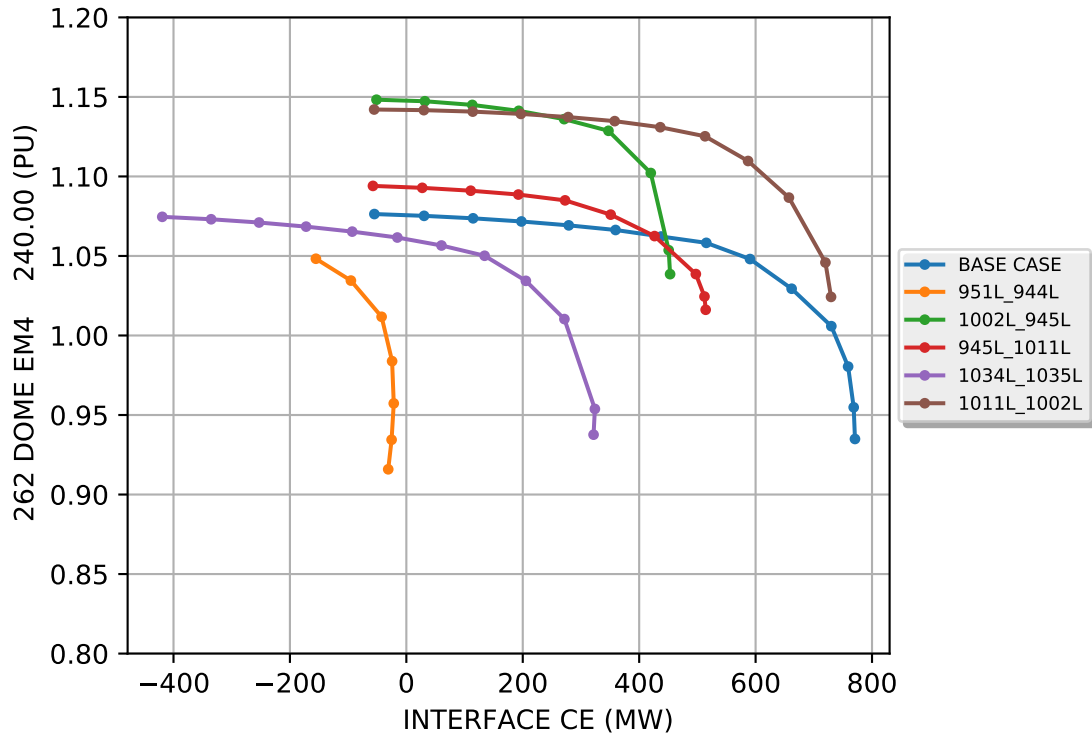


Figure: E-4-123

Case: M7, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 86.1%

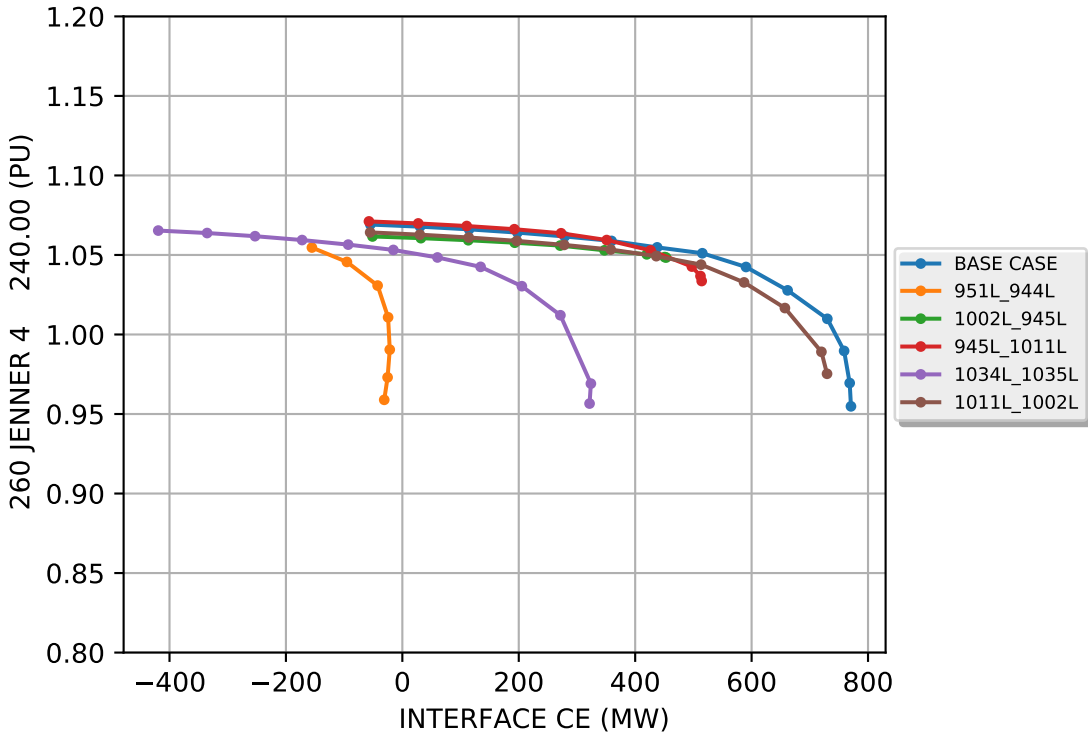


Figure: E-4-124

Case: M7, Option: PRE

Min Voltage: 0.97 PU, Min Margin: 86.1%

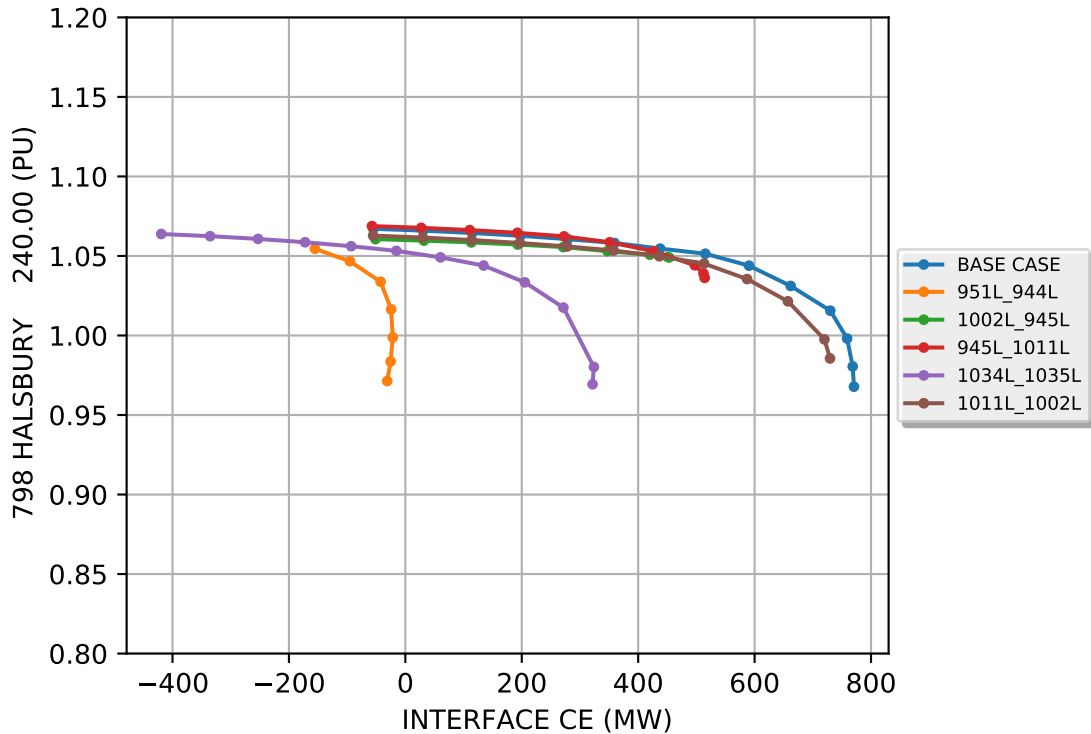


Figure: E-4-125

Case: M7, Option: PRE

Min Voltage: 0.96 PU, Min Margin: 86.1%

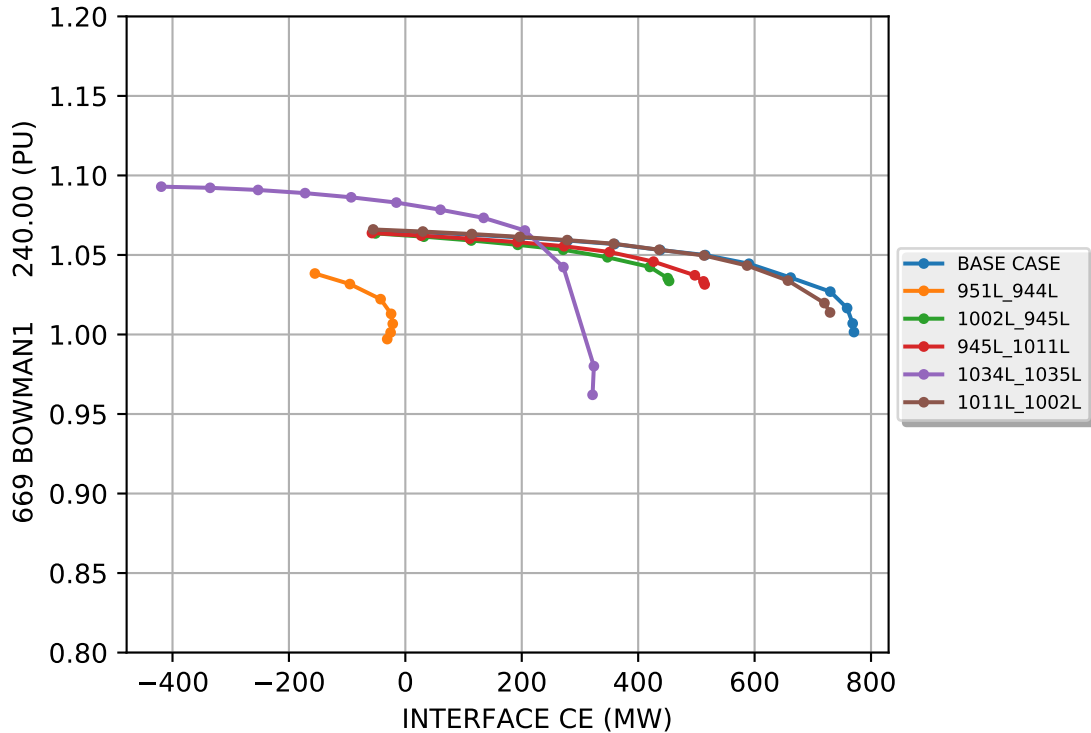


Figure: E-4-126

Case: M7, Option: PRE

Min Voltage: 1.03 PU, Min Margin: 86.1%

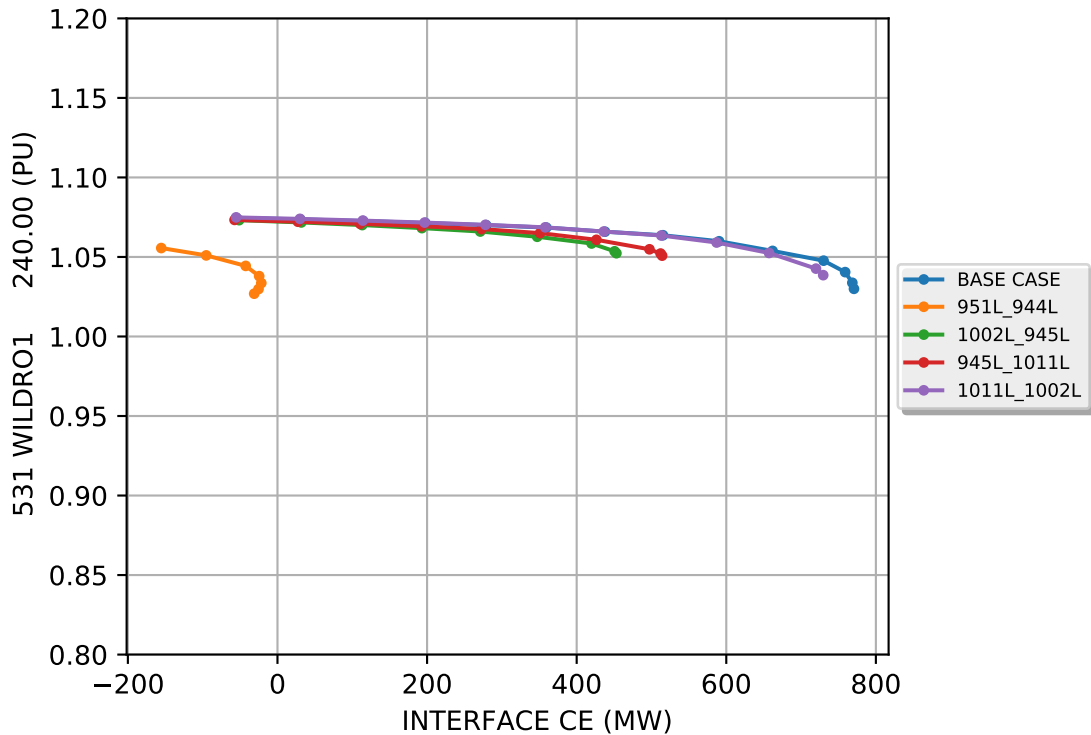


Figure: E-4-127

Case: M7, Option: PRE

Min Voltage: 1.02 PU, Min Margin: 86.1%

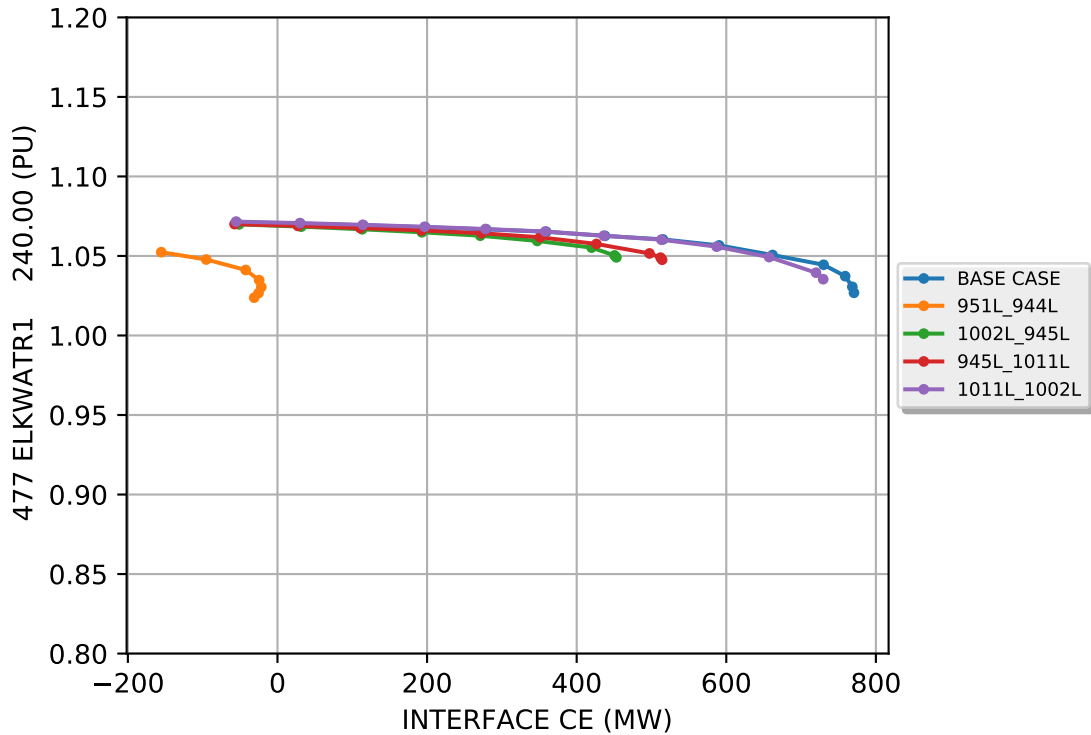


Figure: E-4-128

Case: M6, Option: PRE

Min Voltage: 0.91 PU, Min Margin: 69.3%

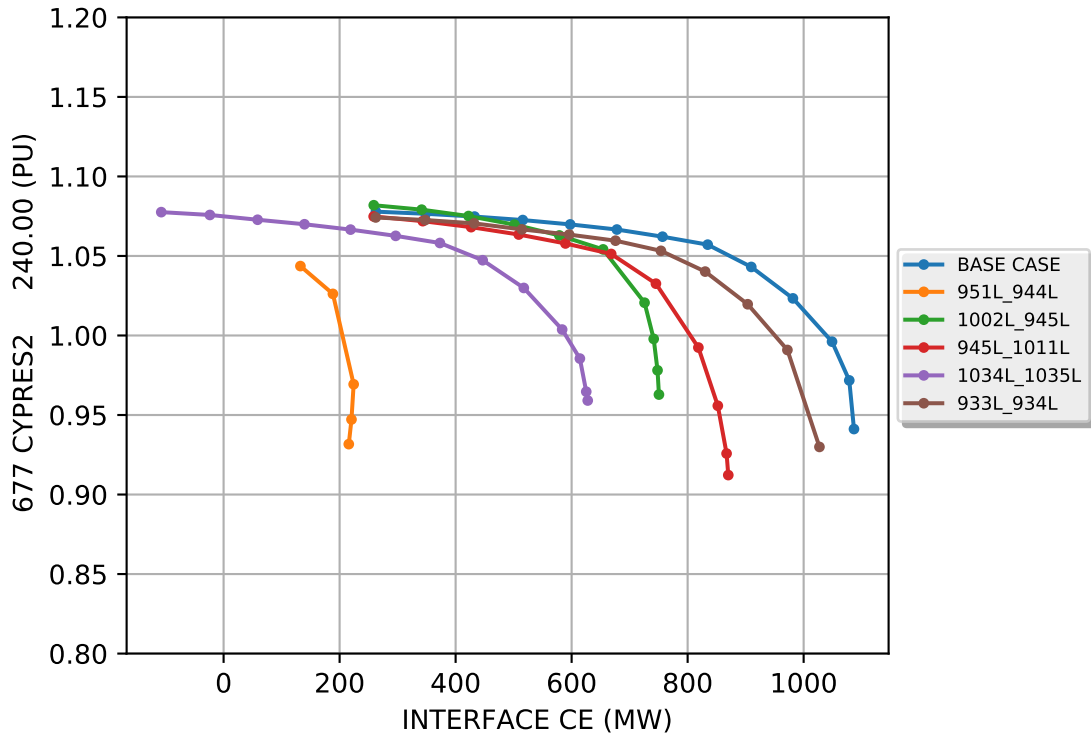


Figure: E-4-129

Case: M6, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 69.3%

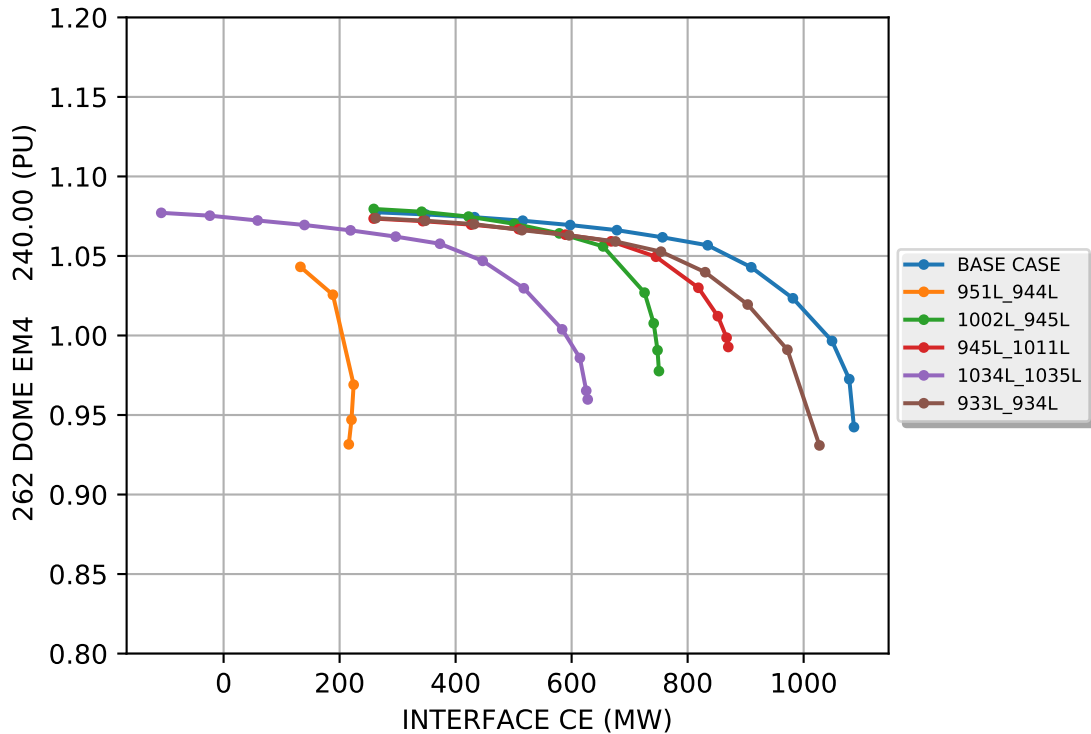


Figure: E-4-130

Case: M6, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 69.3%

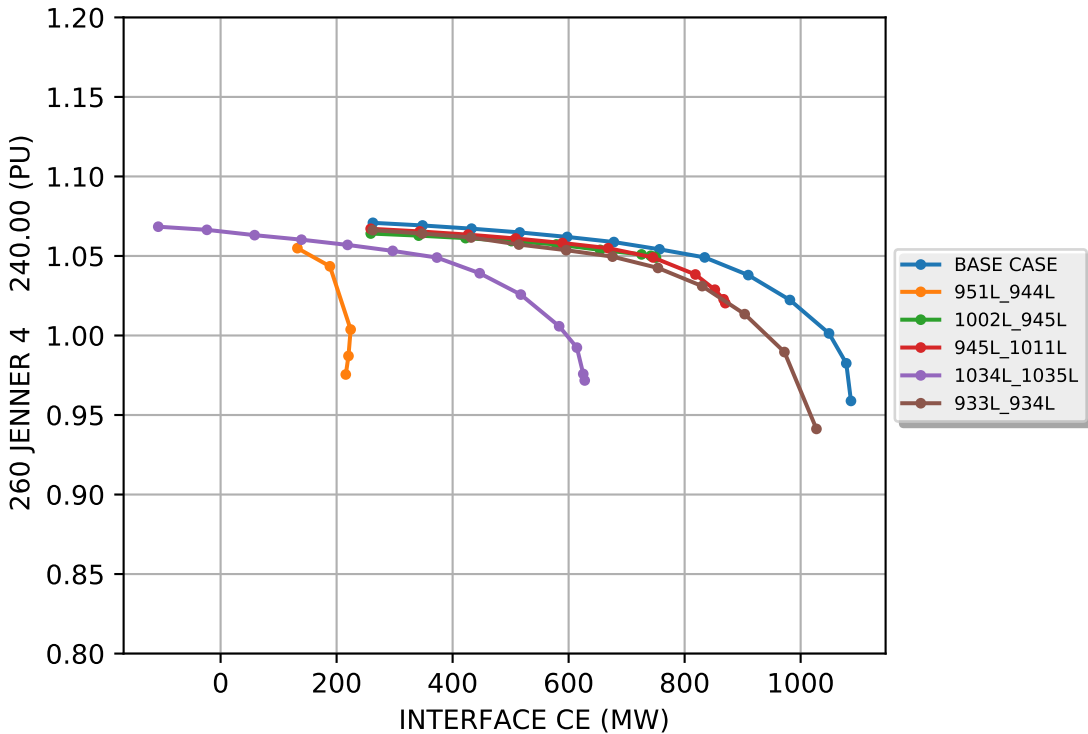


Figure: E-4-131

Case: M6, Option: PRE

Min Voltage: 0.96 PU, Min Margin: 69.3%

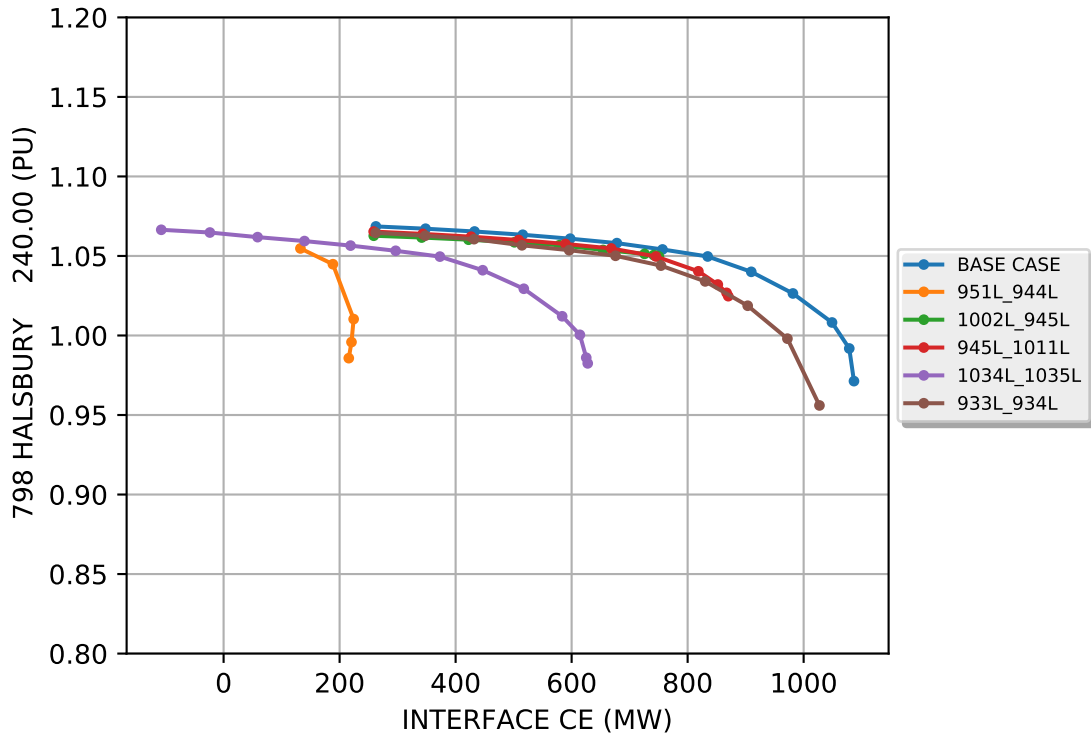


Figure: E-4-132

Case: M6, Option: PRE

Min Voltage: 0.98 PU, Min Margin: 69.3%

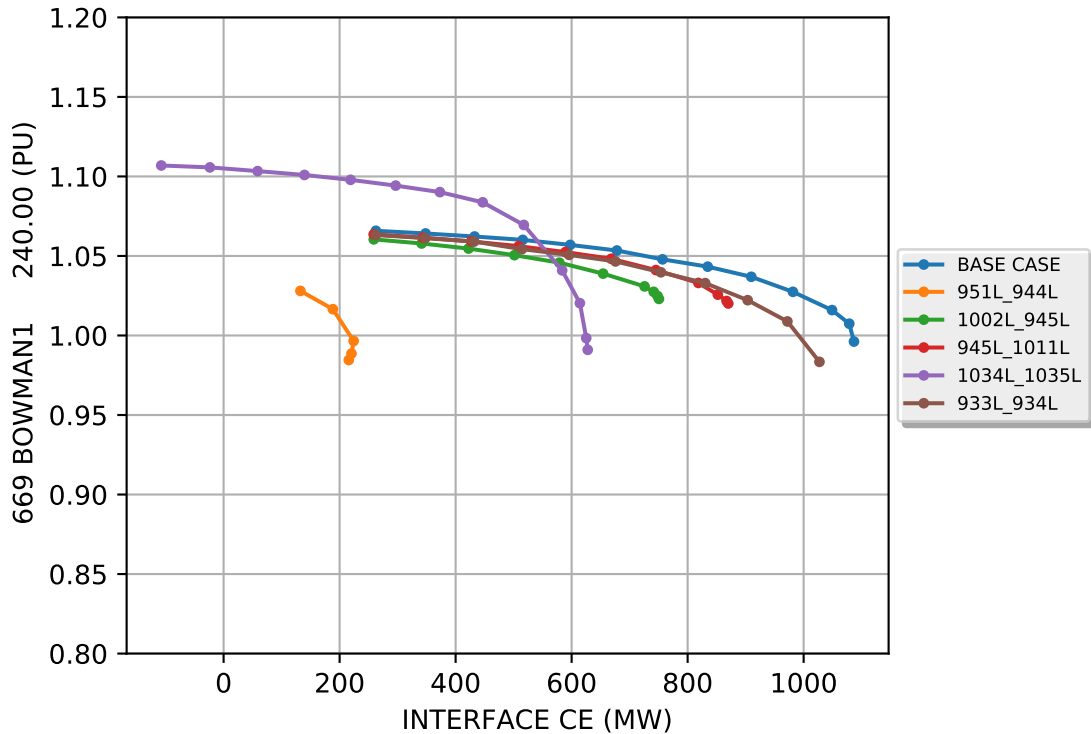


Figure: E-4-133

Case: M6, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 69.3%

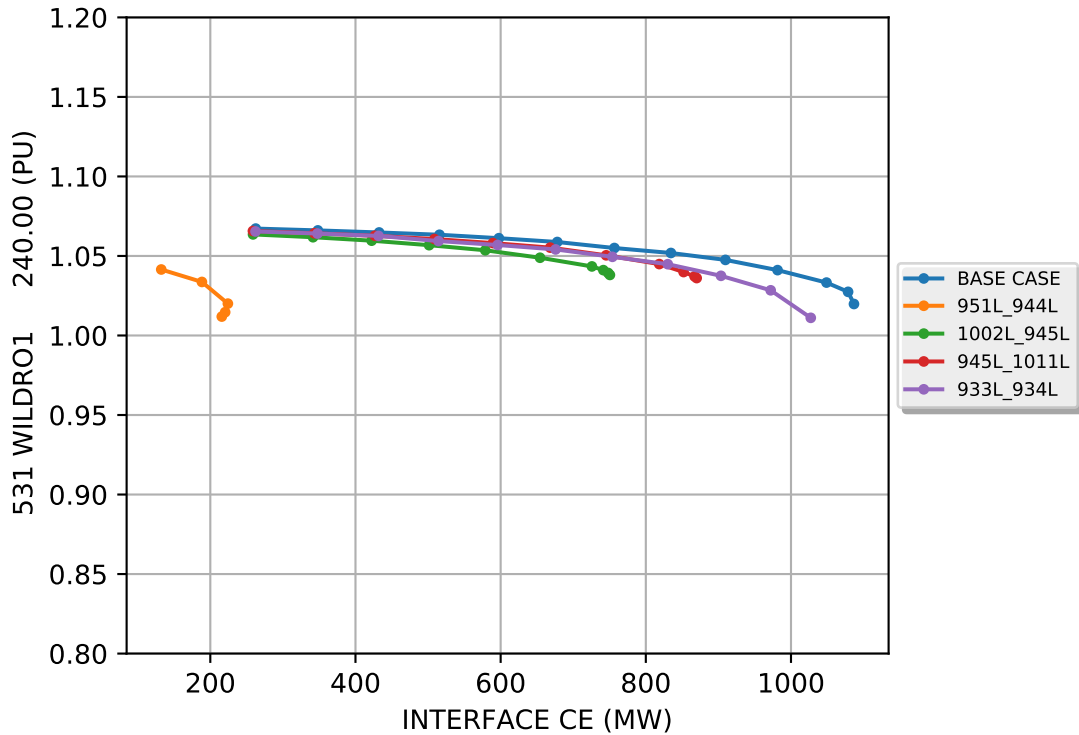


Figure: E-4-134

Case: M6, Option: PRE

Min Voltage: 1.01 PU, Min Margin: 69.3%

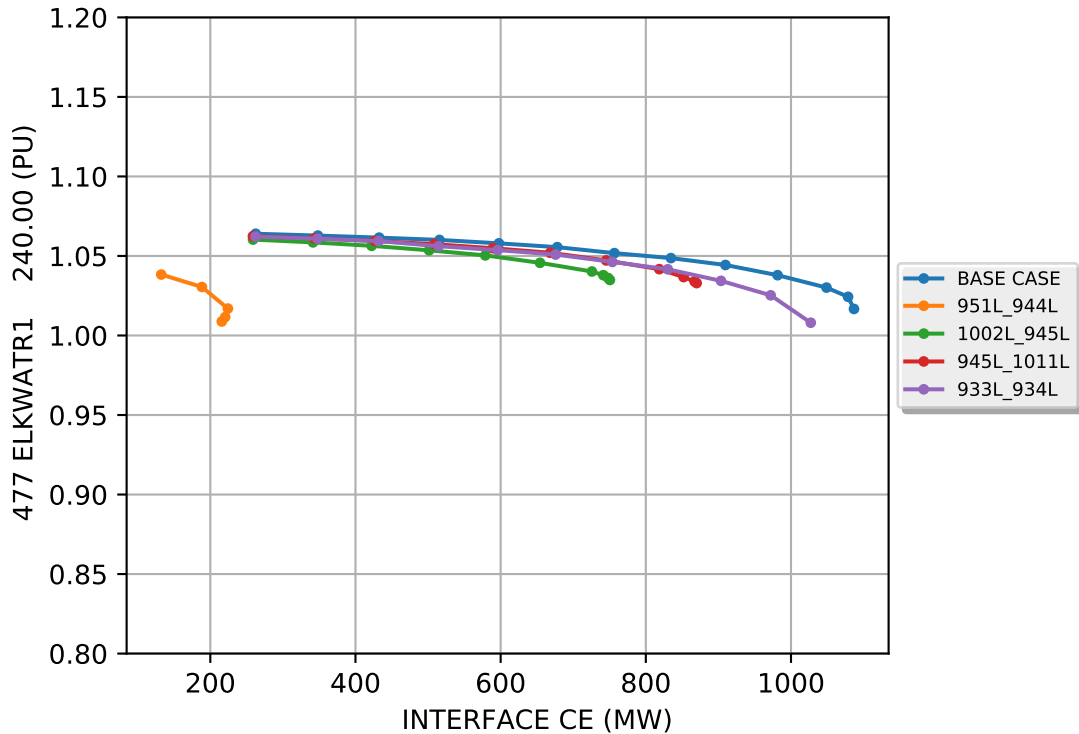


Figure: E-4-135

Case: M6, Option: PRE

Min Voltage: 0.97 PU, Min Margin: 69.3%

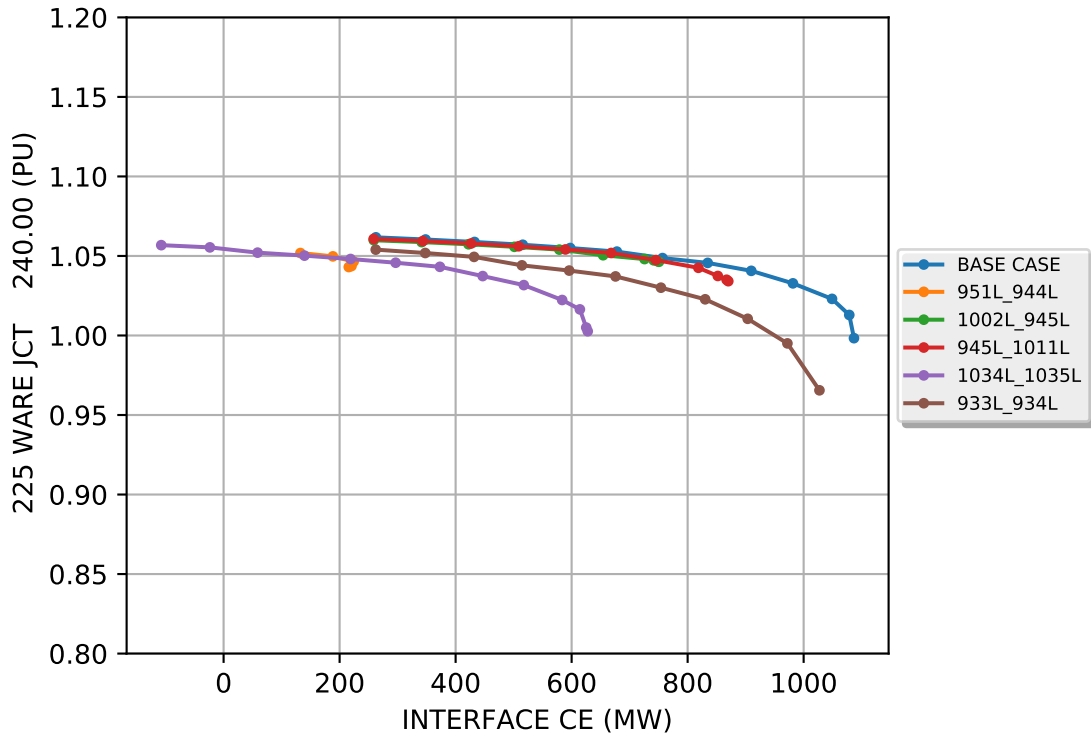


Figure: E-4-136

Case: M4, Option: PRE

Min Voltage: 0.90 PU, Min Margin: 16.8%

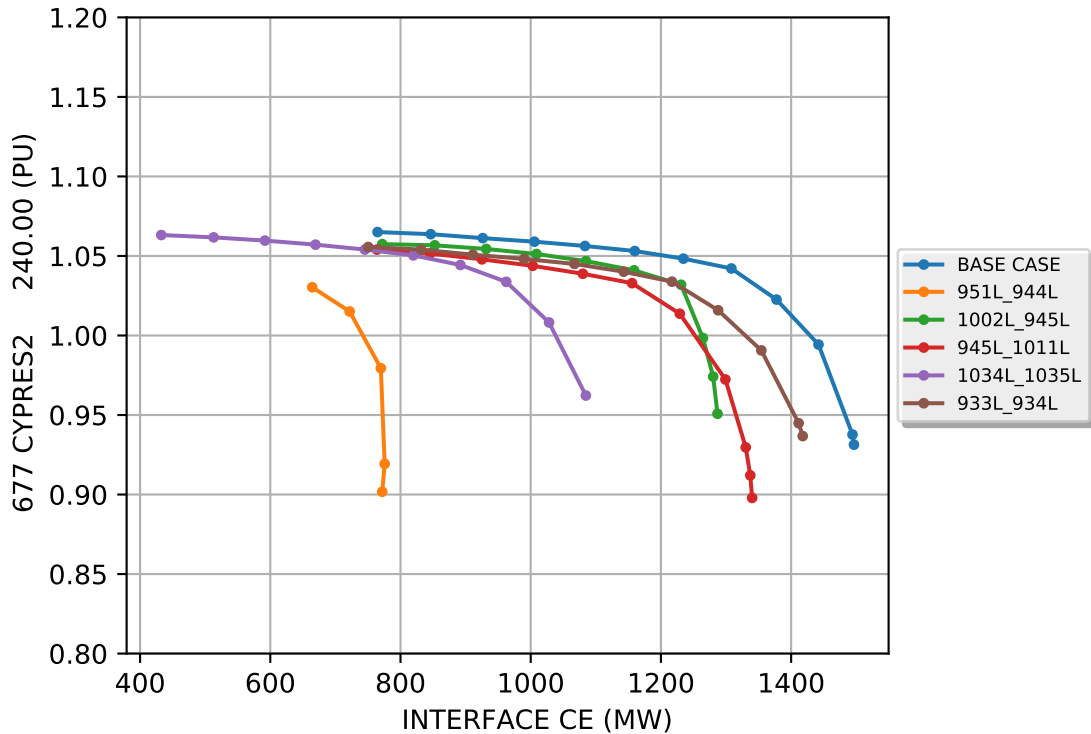


Figure: E-4-137

Case: M4, Option: PRE

Min Voltage: 0.90 PU, Min Margin: 16.8%

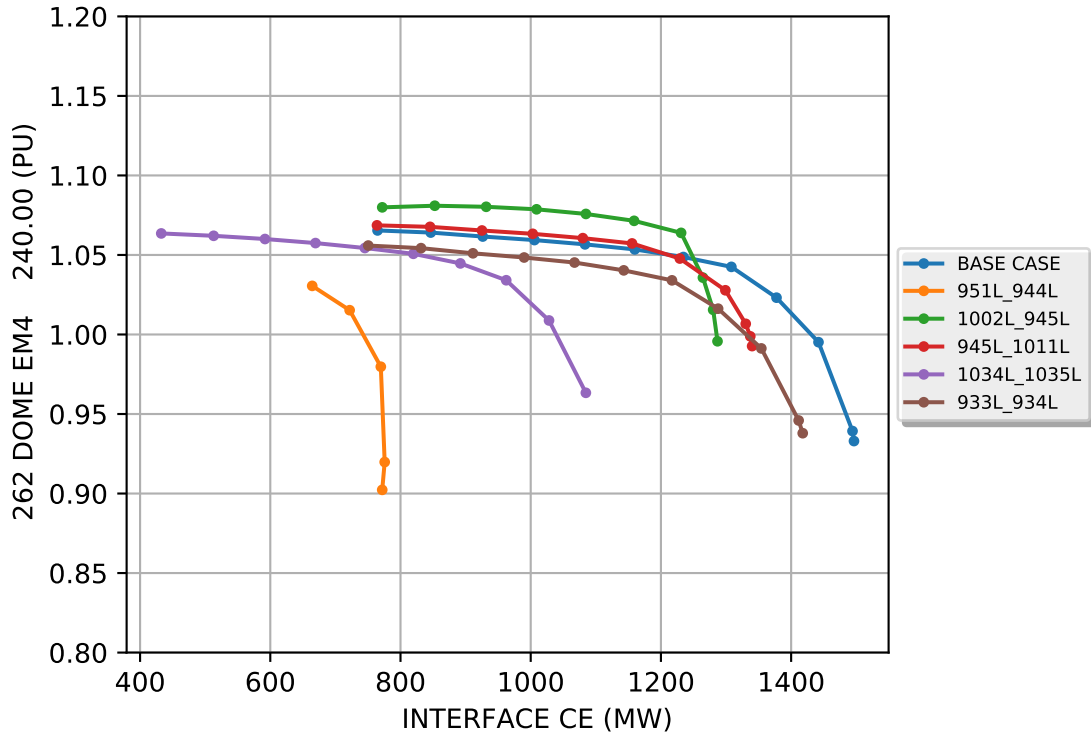


Figure: E-4-138

Case: M4, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 16.8%

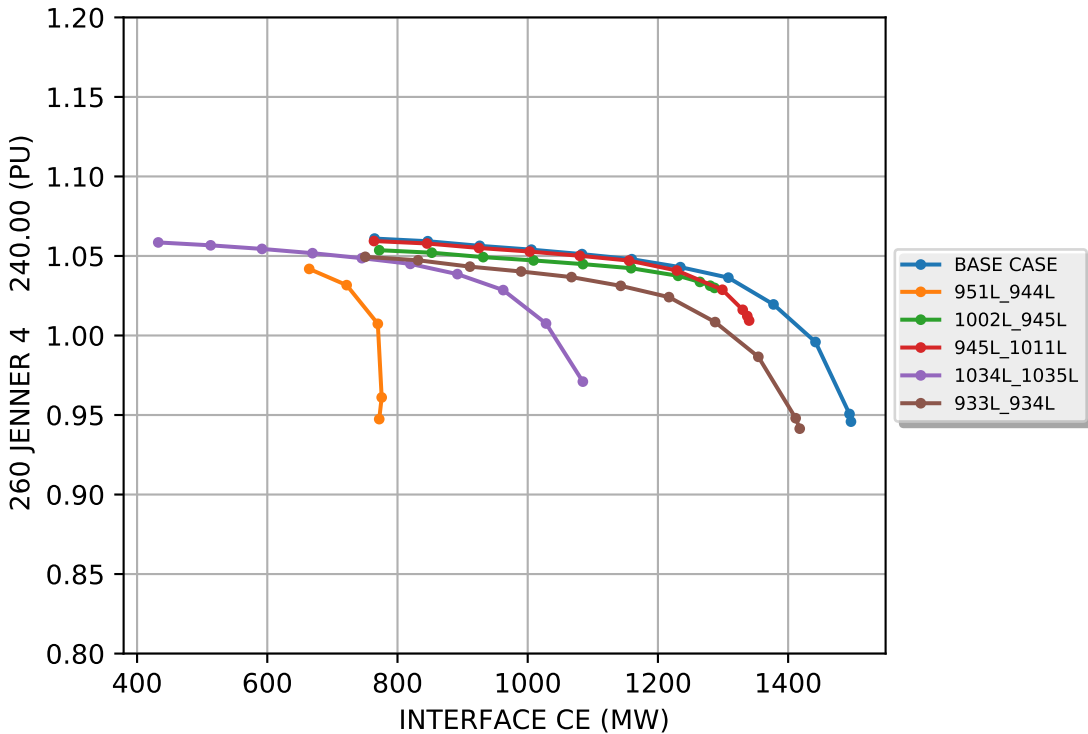


Figure: E-4-139

Case: M4, Option: PRE

Min Voltage: 0.96 PU, Min Margin: 16.8%

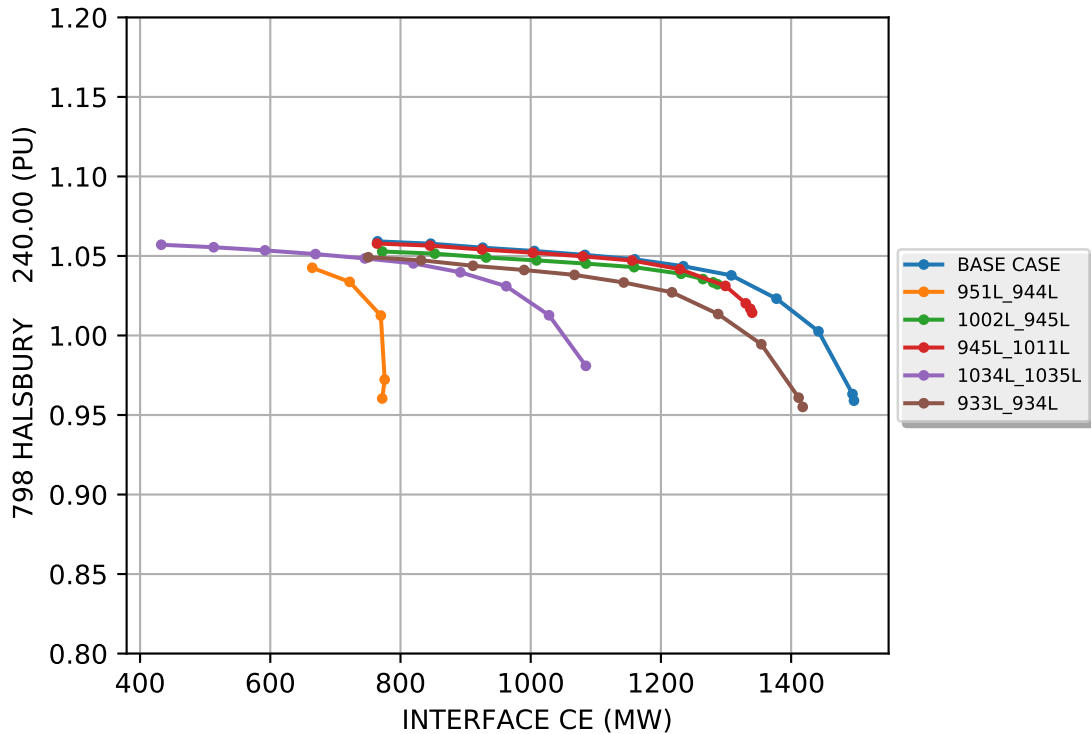


Figure: E-4-140

Case: M4, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 16.8%

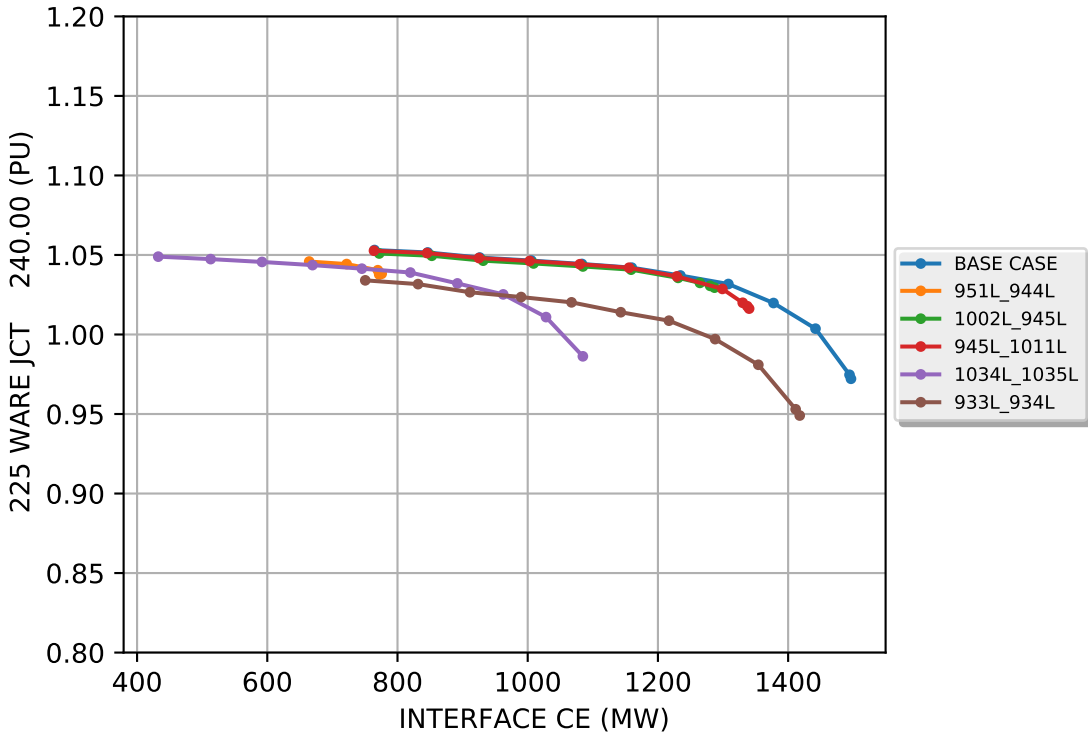


Figure: E-4-141

Case: M4, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 16.8%

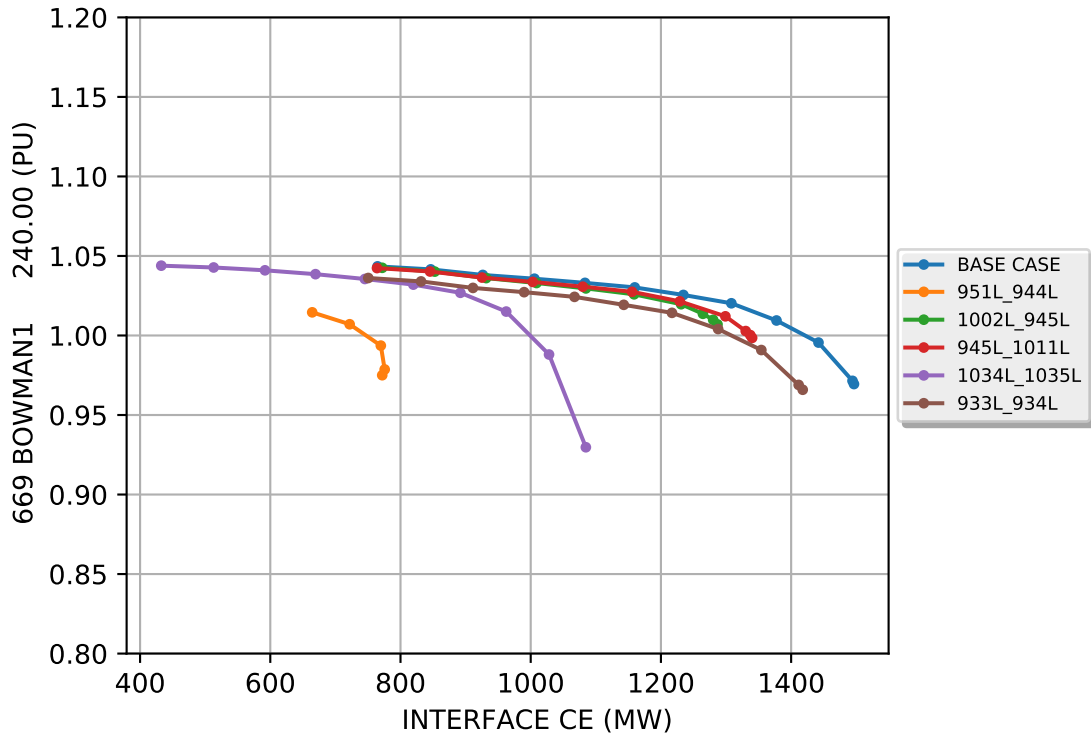


Figure: E-4-142

Case: M4, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 16.8%

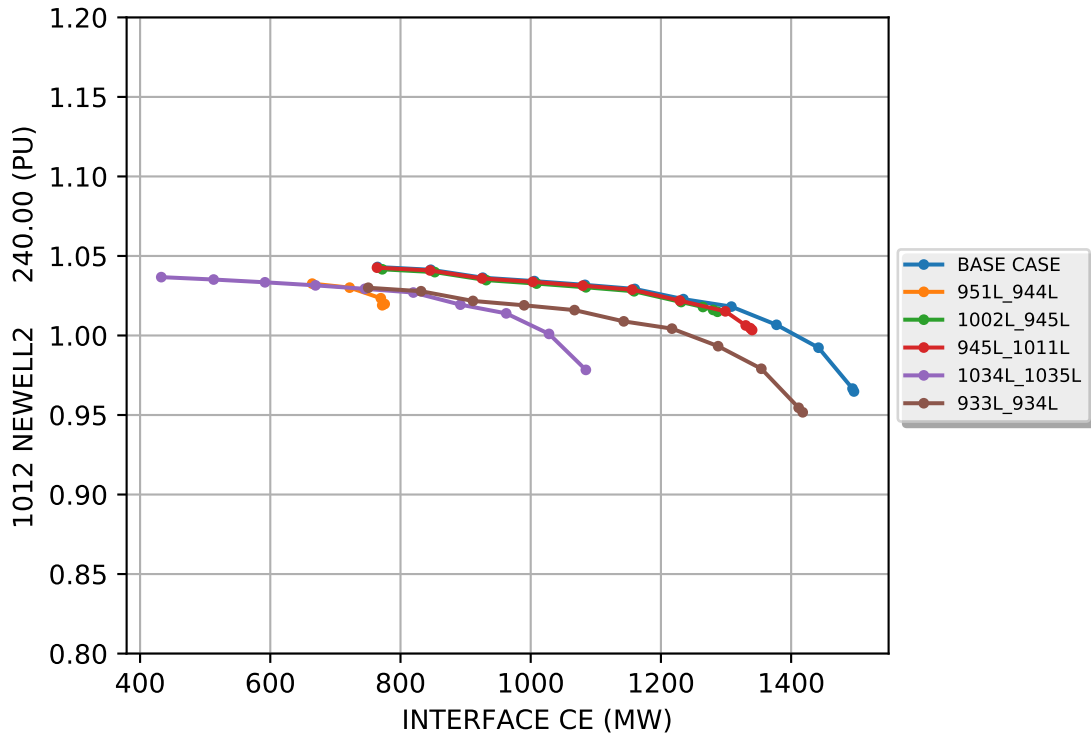


Figure: E-4-143

Case: M4, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 16.8%

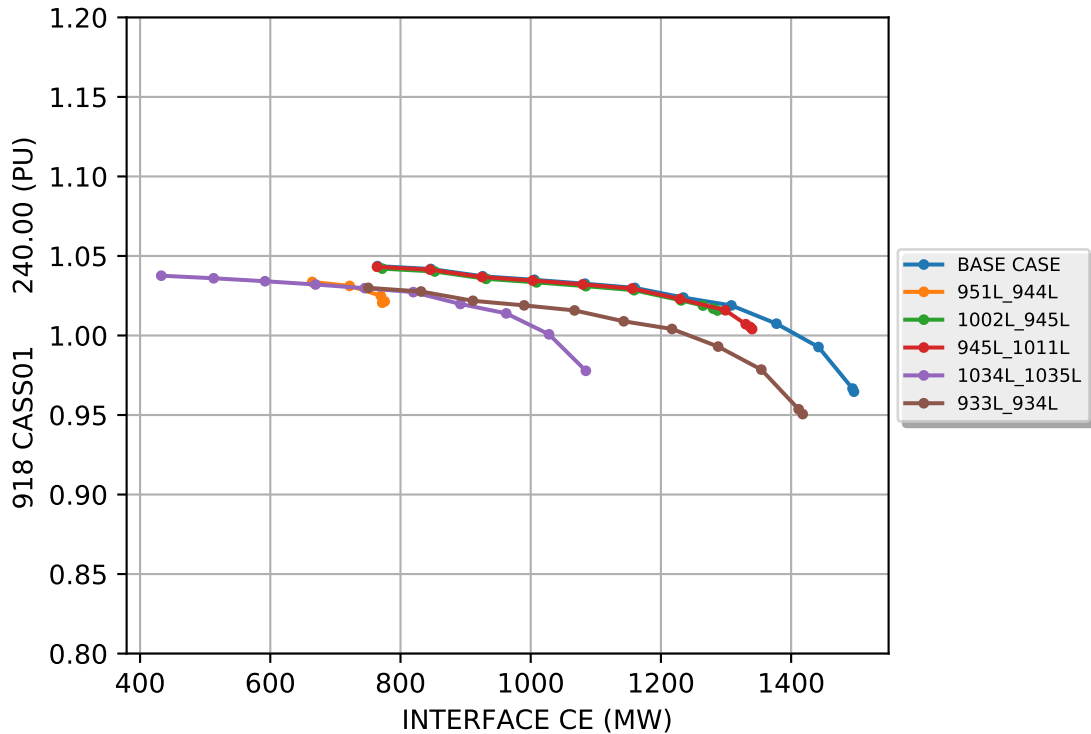


Figure: E-4-144

Case: H10, Option: PRE

Min Voltage: 0.97 PU, Min Margin: 37.4%

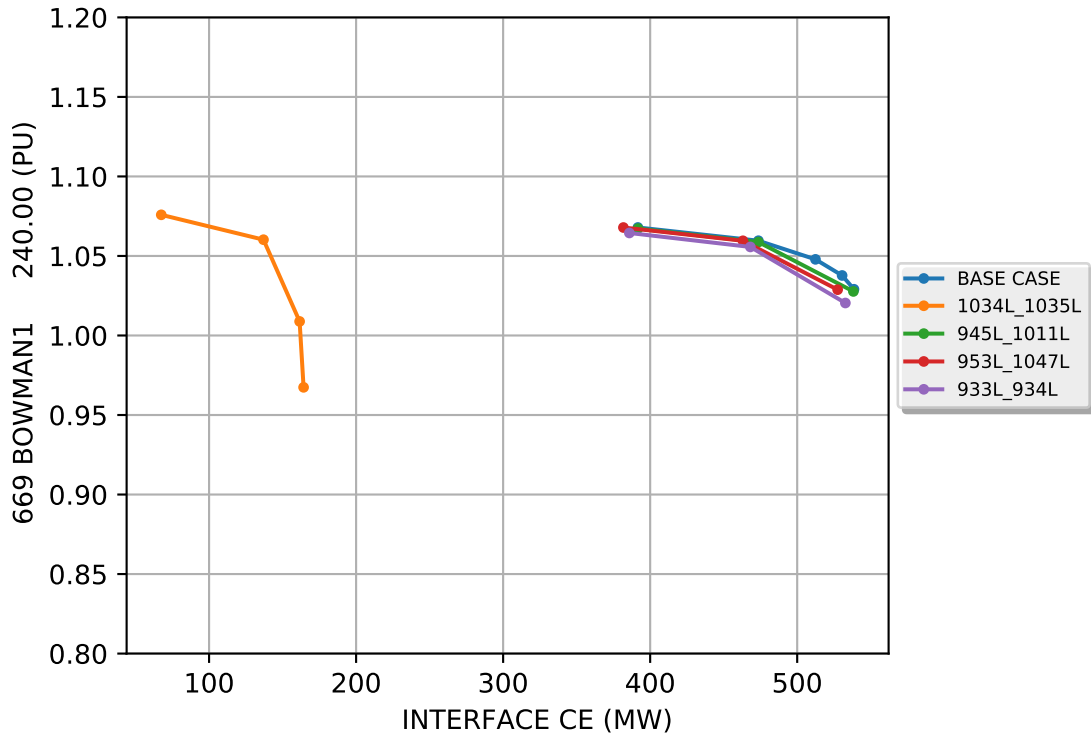


Figure: E-4-145

Case: H10, Option: PRE

Min Voltage: 1.03 PU, Min Margin: 37.4%

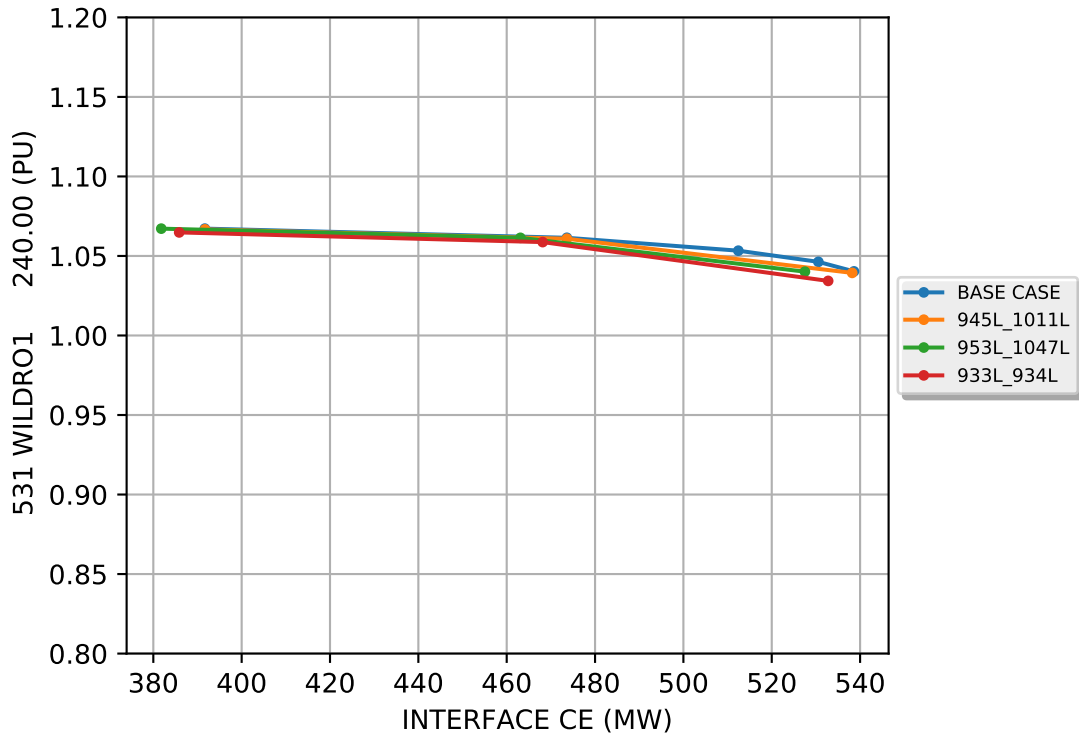


Figure: E-4-146

Case: H10, Option: PRE

Min Voltage: 1.03 PU, Min Margin: 37.4%

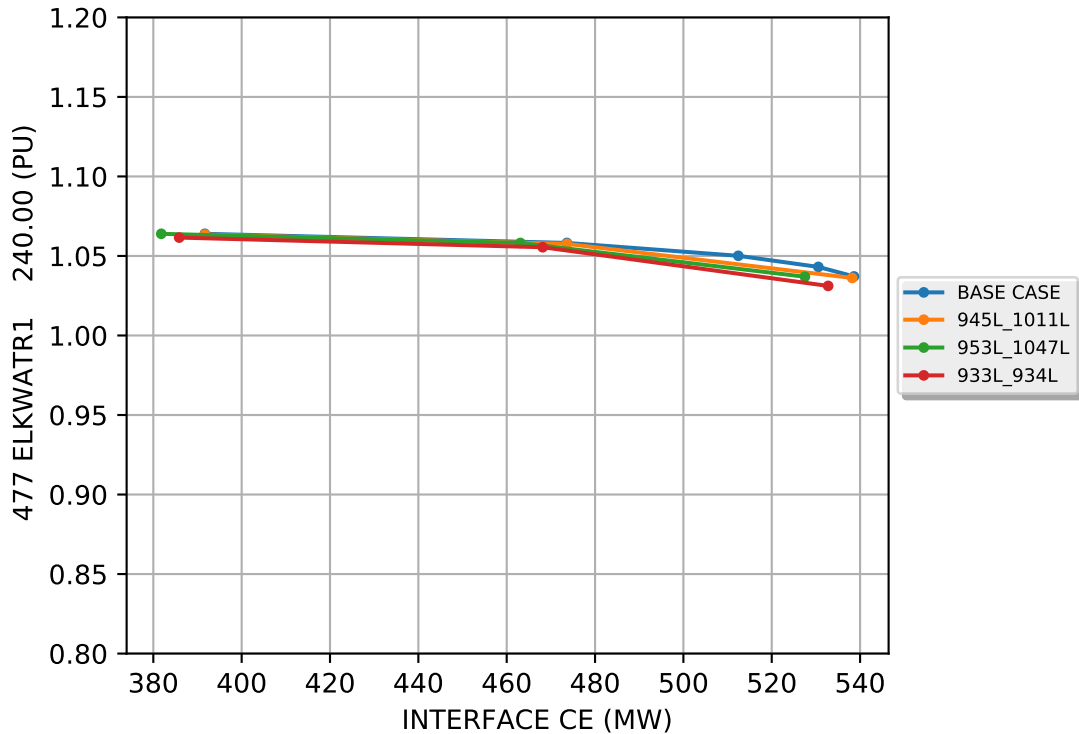


Figure: E-4-147

Case: H10, Option: PRE

Min Voltage: 1.03 PU, Min Margin: 37.4%

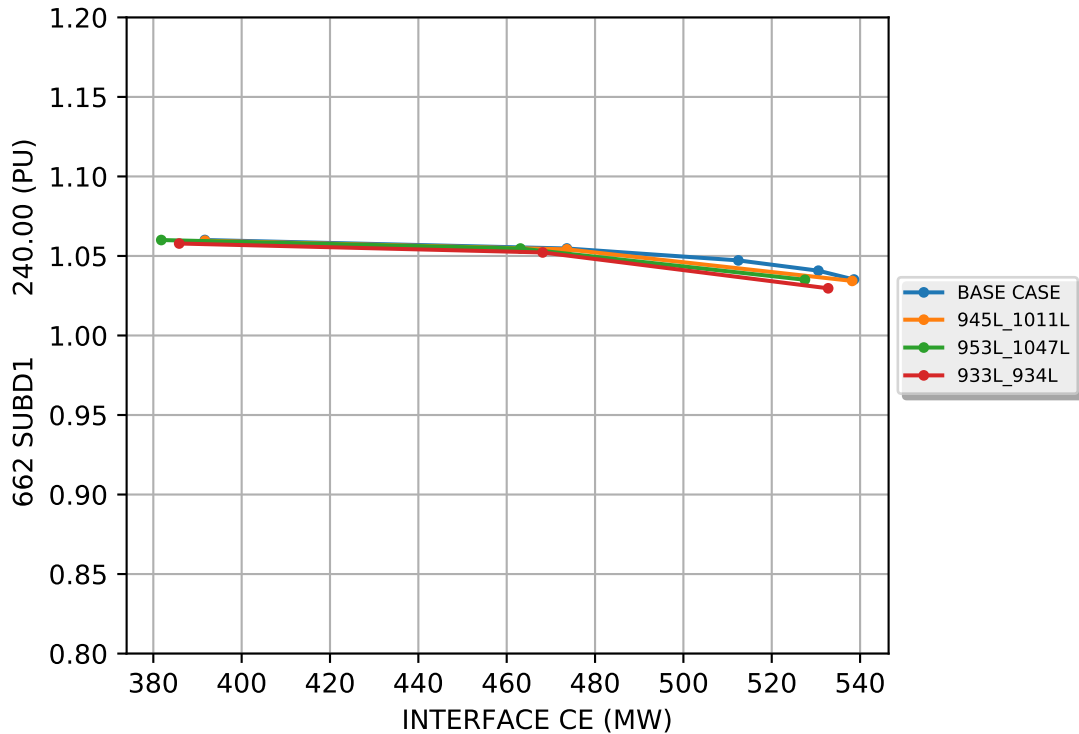


Figure: E-4-148

Case: H10, Option: PRE

Min Voltage: 1.03 PU, Min Margin: 37.4%

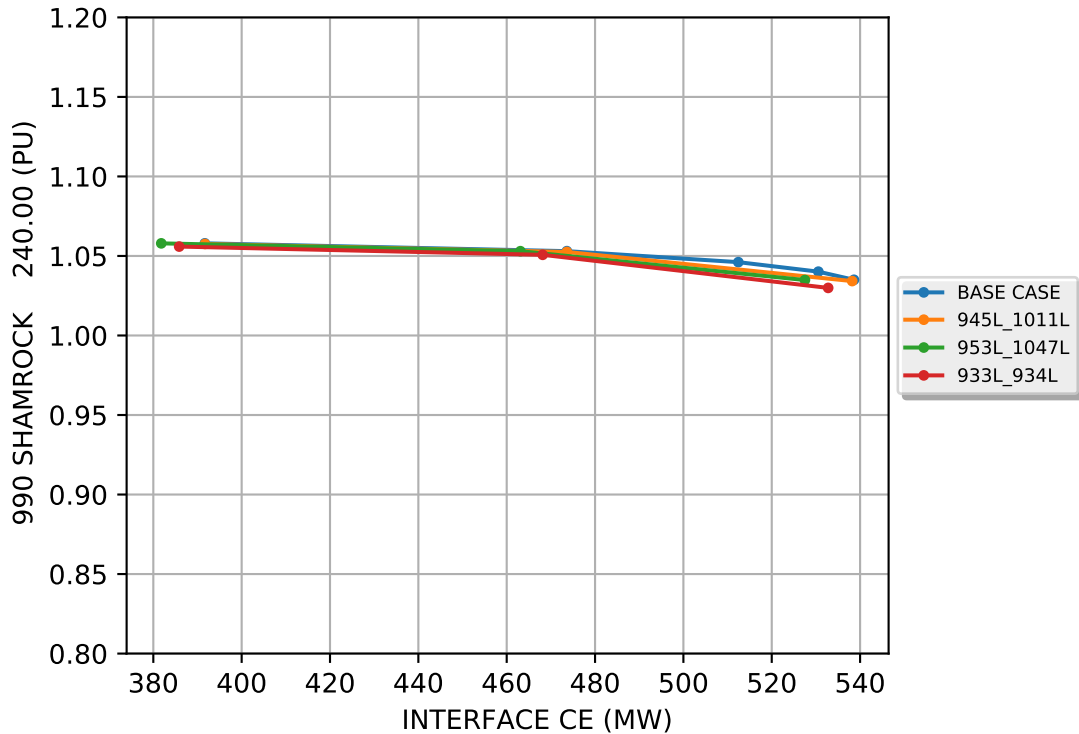


Figure: E-4-149

Case: H10, Option: PRE

Min Voltage: 1.05 PU, Min Margin: 37.4%

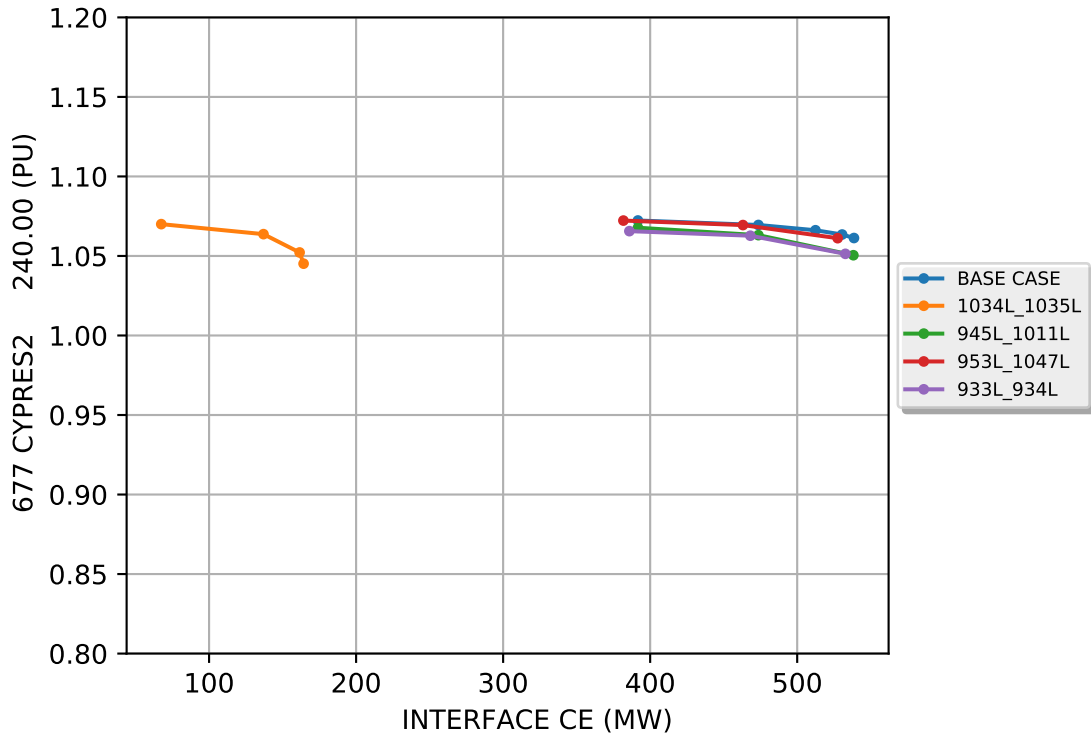


Figure: E-4-150

Case: H10, Option: PRE

Min Voltage: 1.05 PU, Min Margin: 37.4%

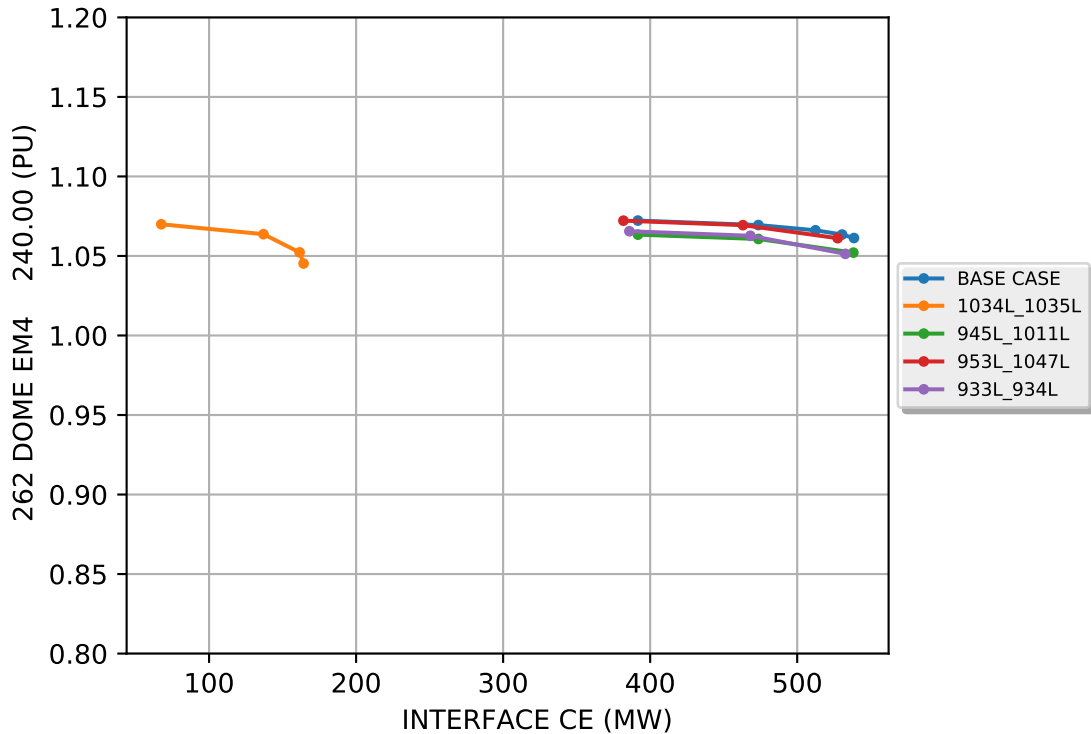


Figure: E-4-151

Case: H10, Option: PRE

Min Voltage: 1.05 PU, Min Margin: 37.4%

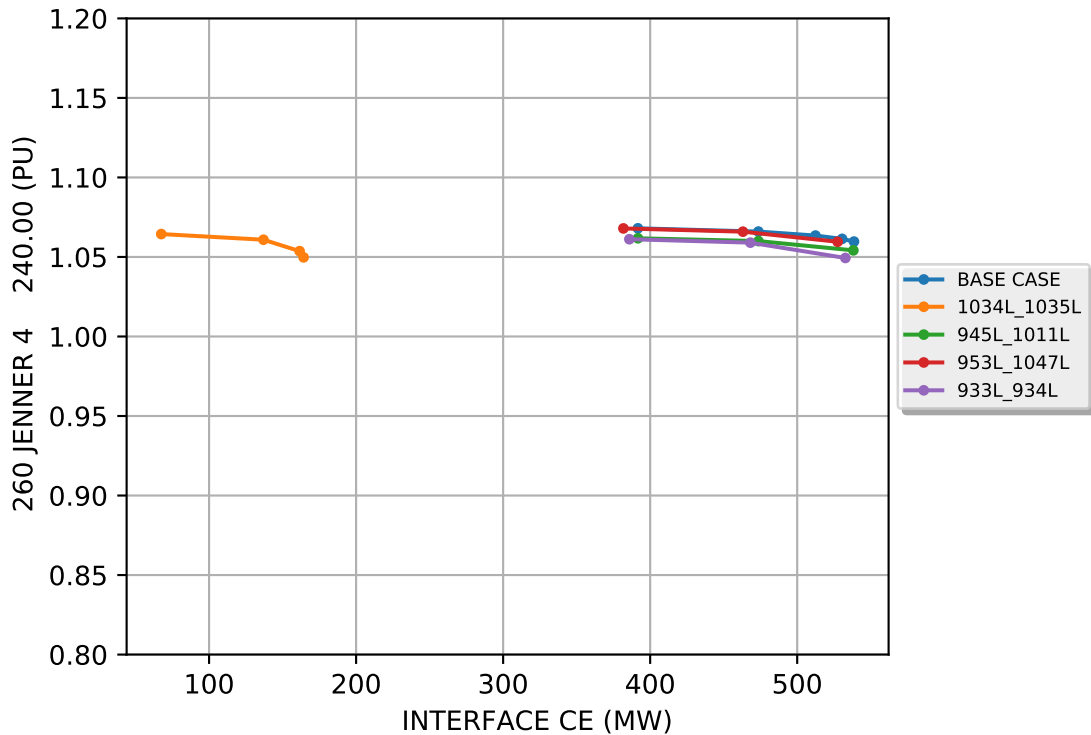


Figure: E-4-152

Case: H10, Option: PRE

Min Voltage: 1.05 PU, Min Margin: 37.4%

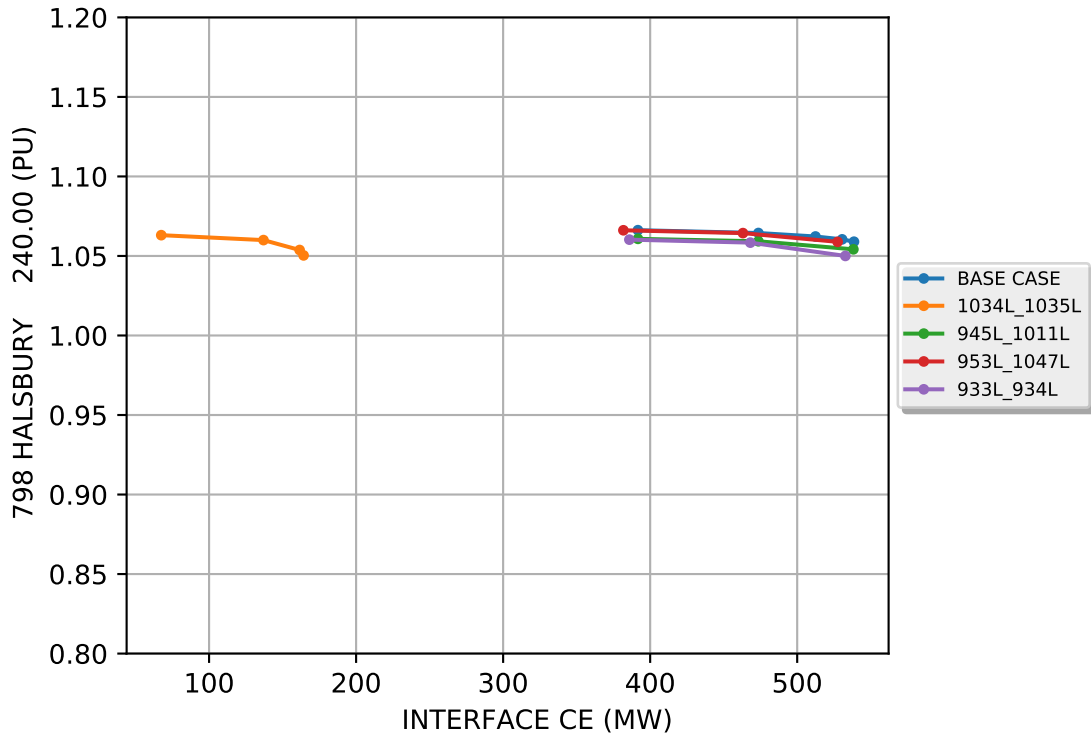


Figure: E-4-153

Case: H11, Option: PRE

Min Voltage: 1.00 PU, Min Margin: 13.3%

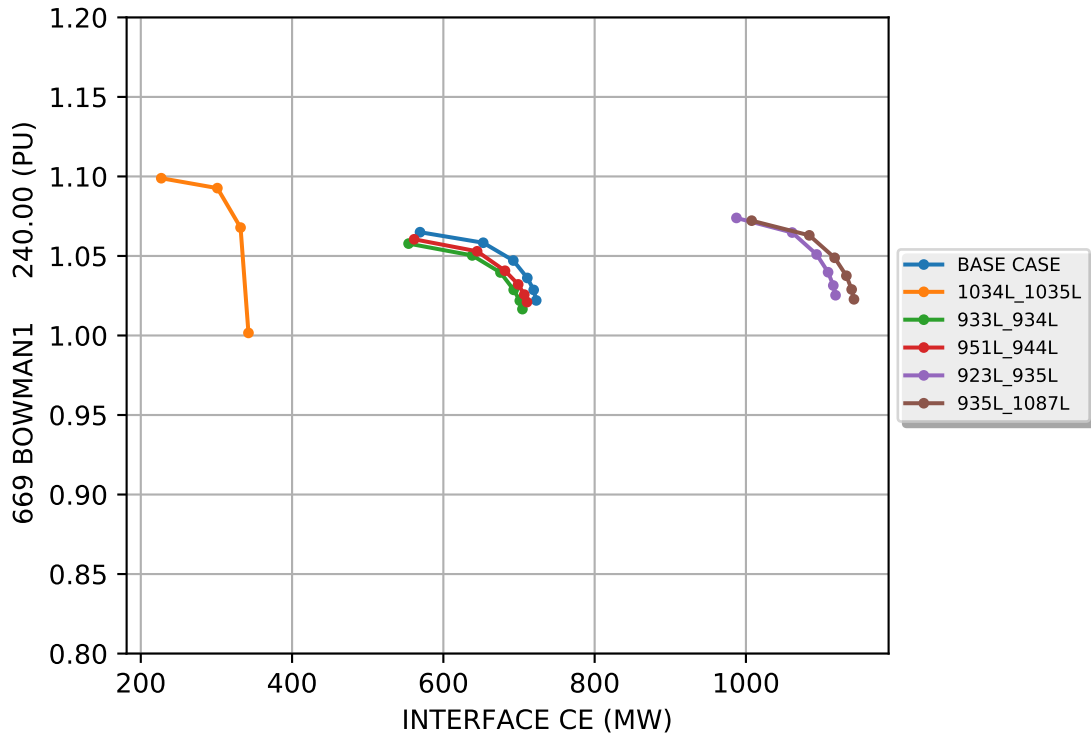


Figure: E-4-154

Case: H11, Option: PRE

Min Voltage: 1.03 PU, Min Margin: 13.3%

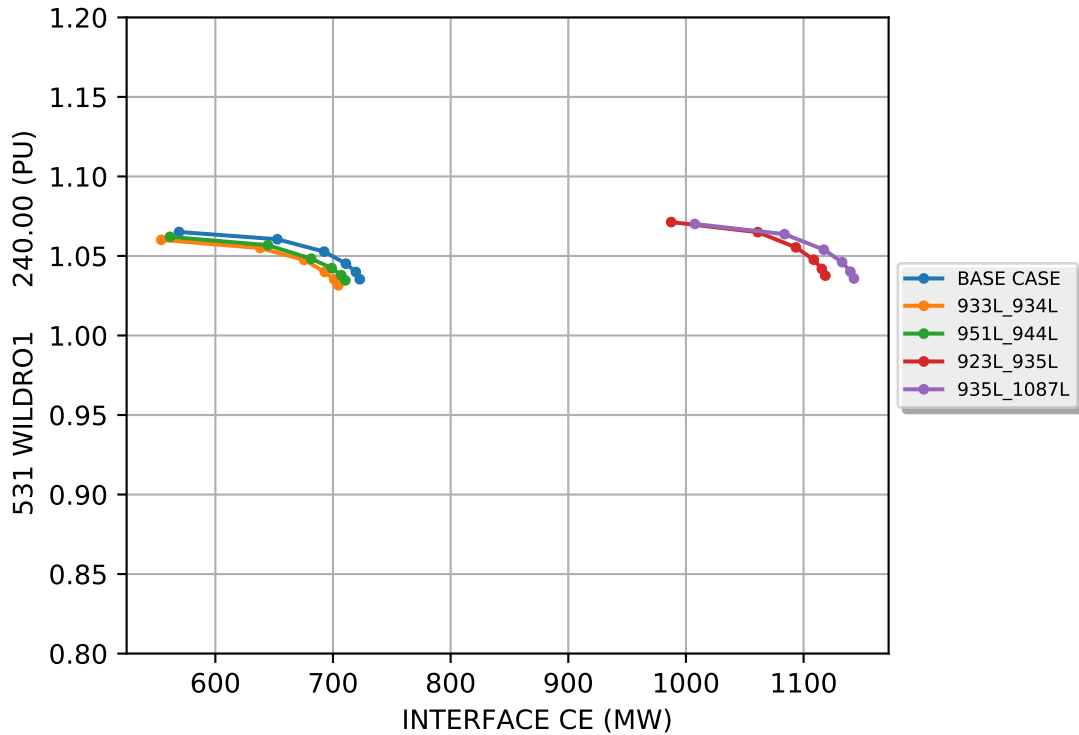


Figure: E-4-155

Case: H11, Option: PRE

Min Voltage: 1.03 PU, Min Margin: 13.3%

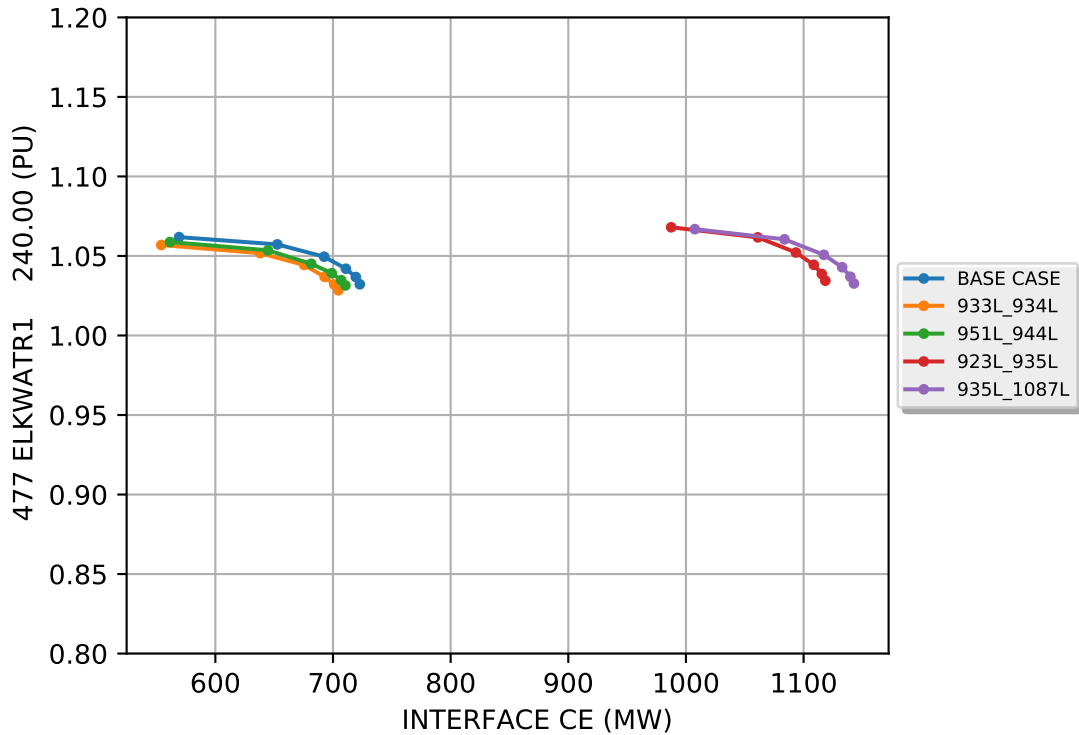


Figure: E-4-156

Case: H11, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 13.3%

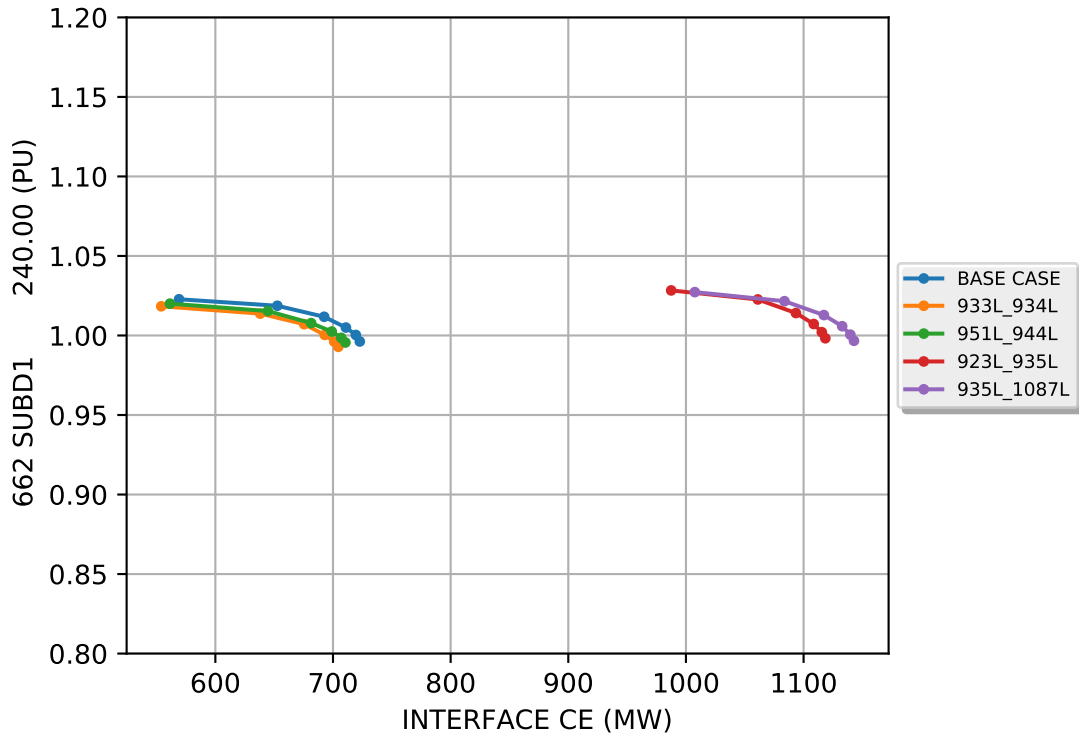


Figure: E-4-157

Case: H11, Option: PRE

Min Voltage: 1.00 PU, Min Margin: 13.3%

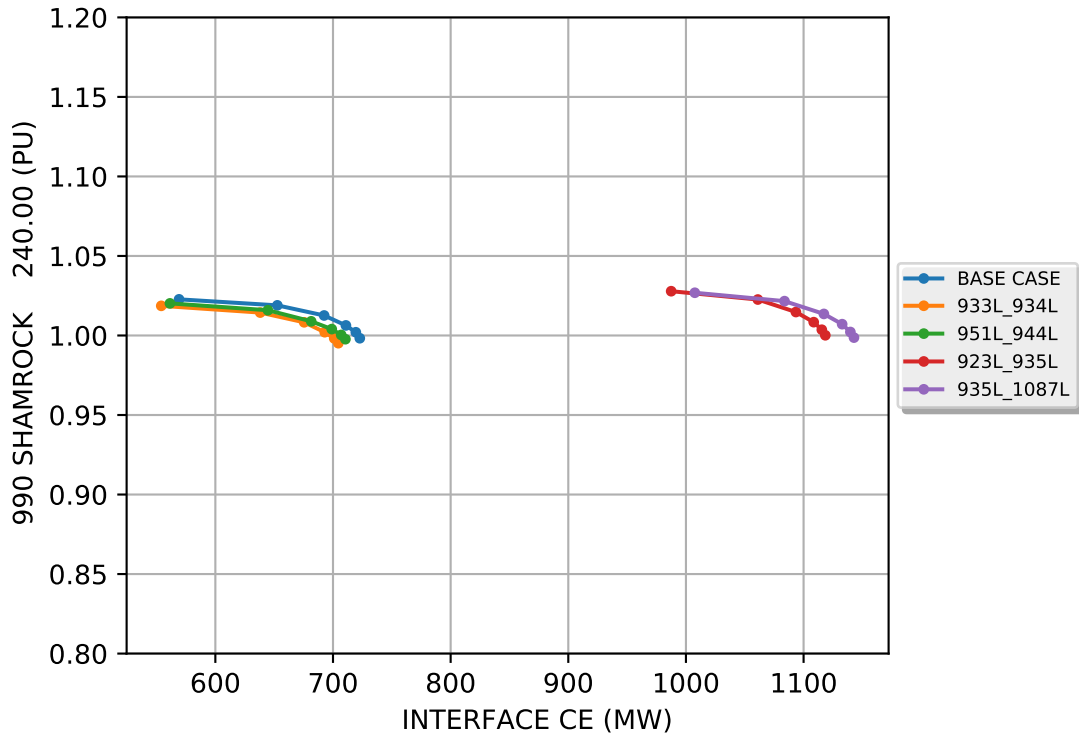


Figure: E-4-158

Case: H11, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 13.3%

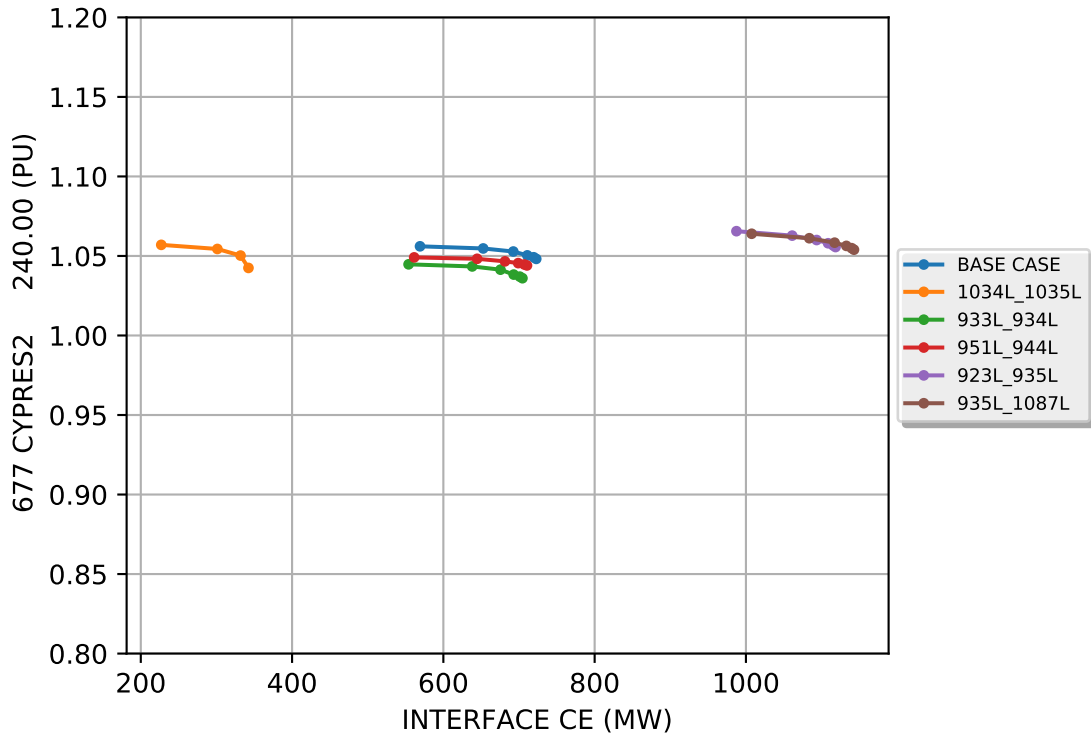


Figure: E-4-159

Case: H11, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 13.3%

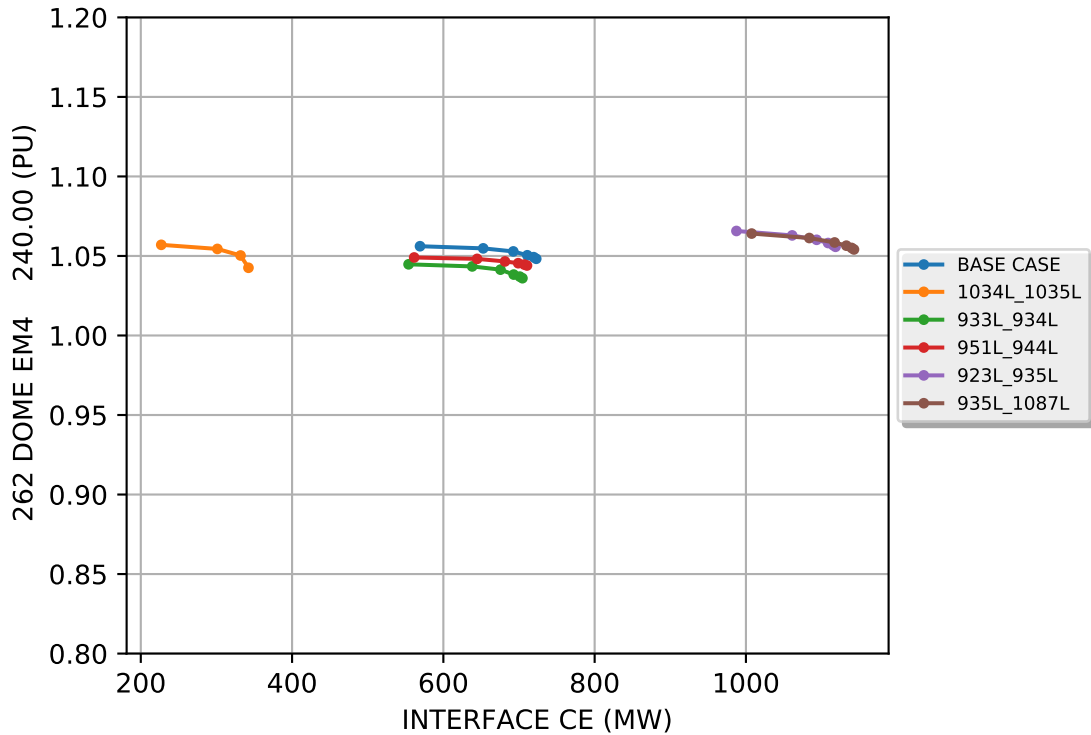


Figure: E-4-160

Case: H11, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 13.3%

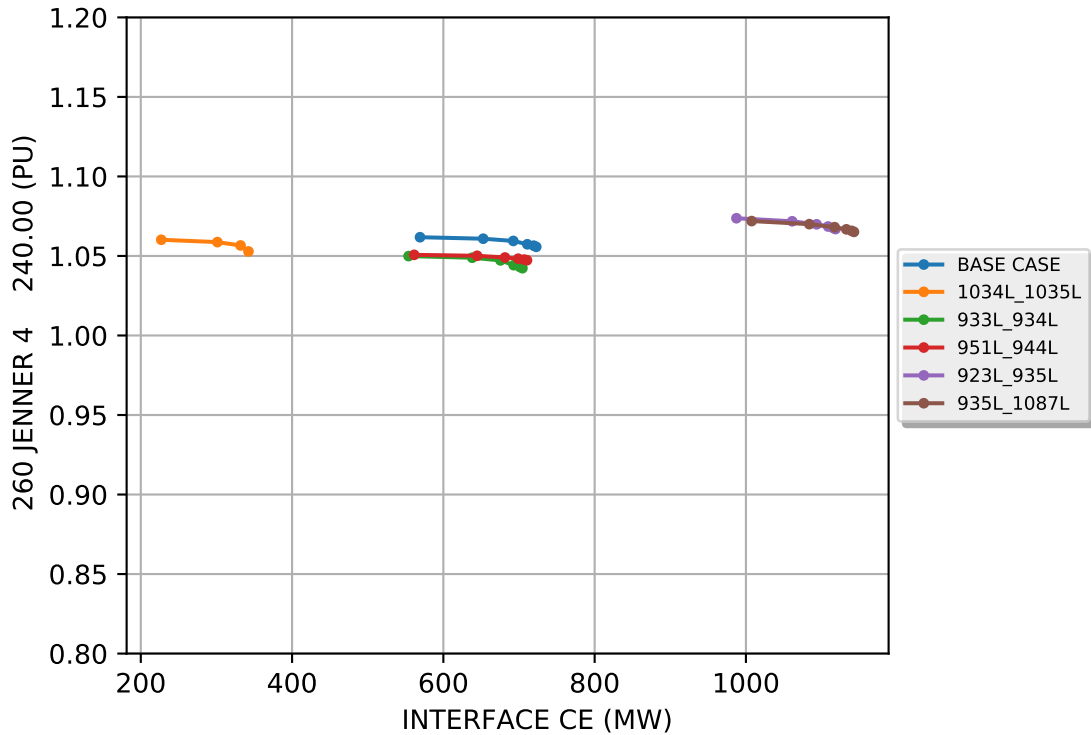


Figure: E-4-161

Case: H11, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 13.3%

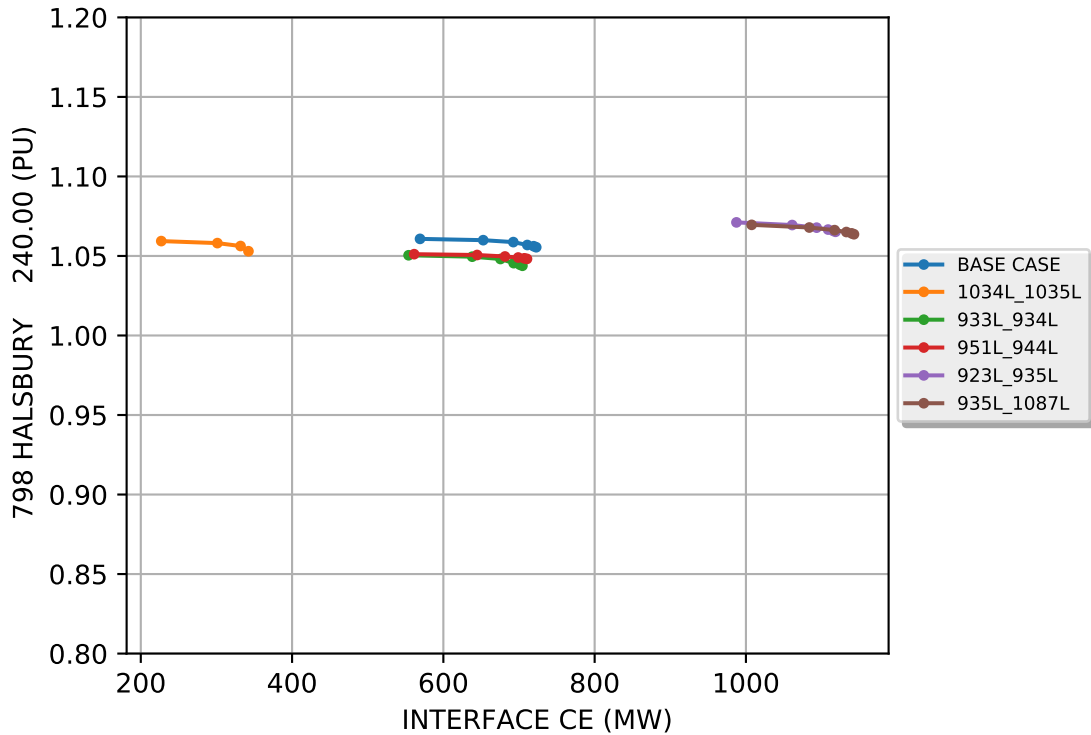


Figure: E-4-162

Case: H9, Option: PRE

Min Voltage: 1.02 PU, Min Margin: 35.8%

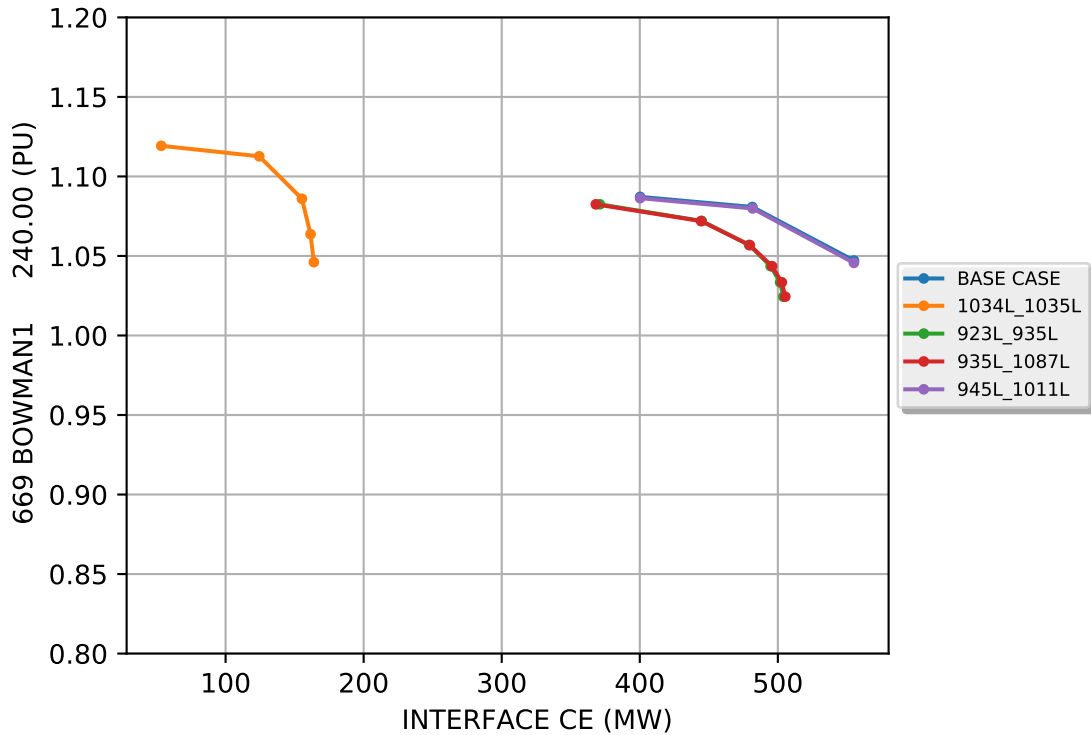


Figure: E-4-163

Case: H9, Option: PRE

Min Voltage: 1.05 PU, Min Margin: 35.8%

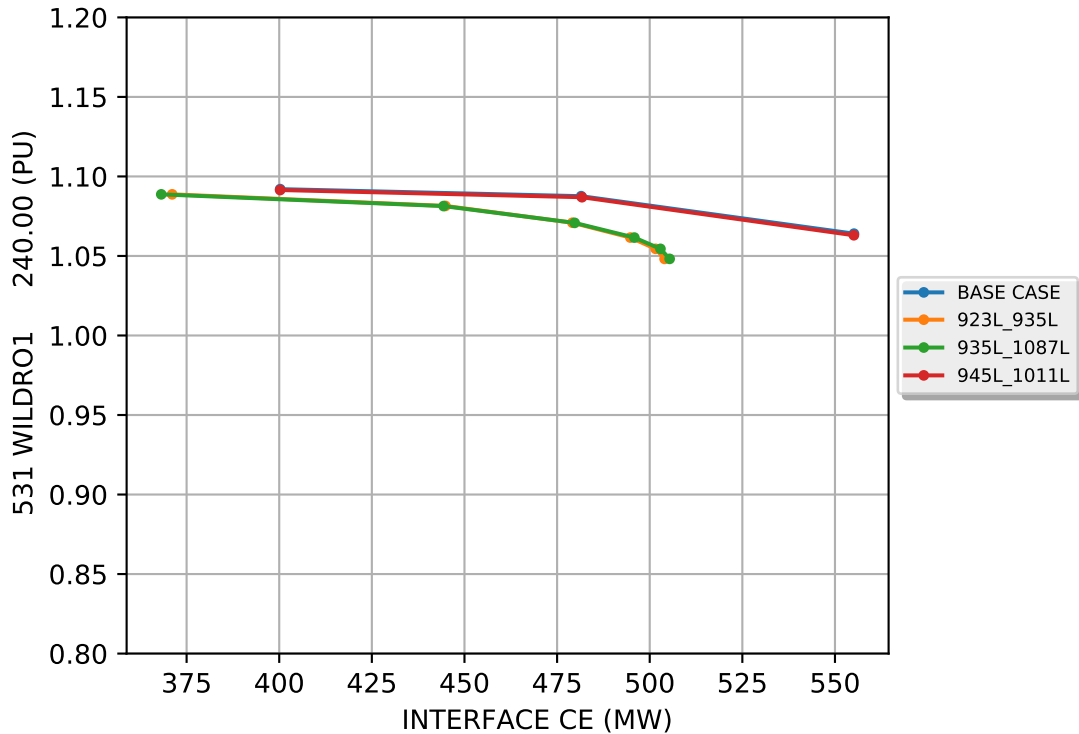


Figure: E-4-164

Case: H9, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 35.8%

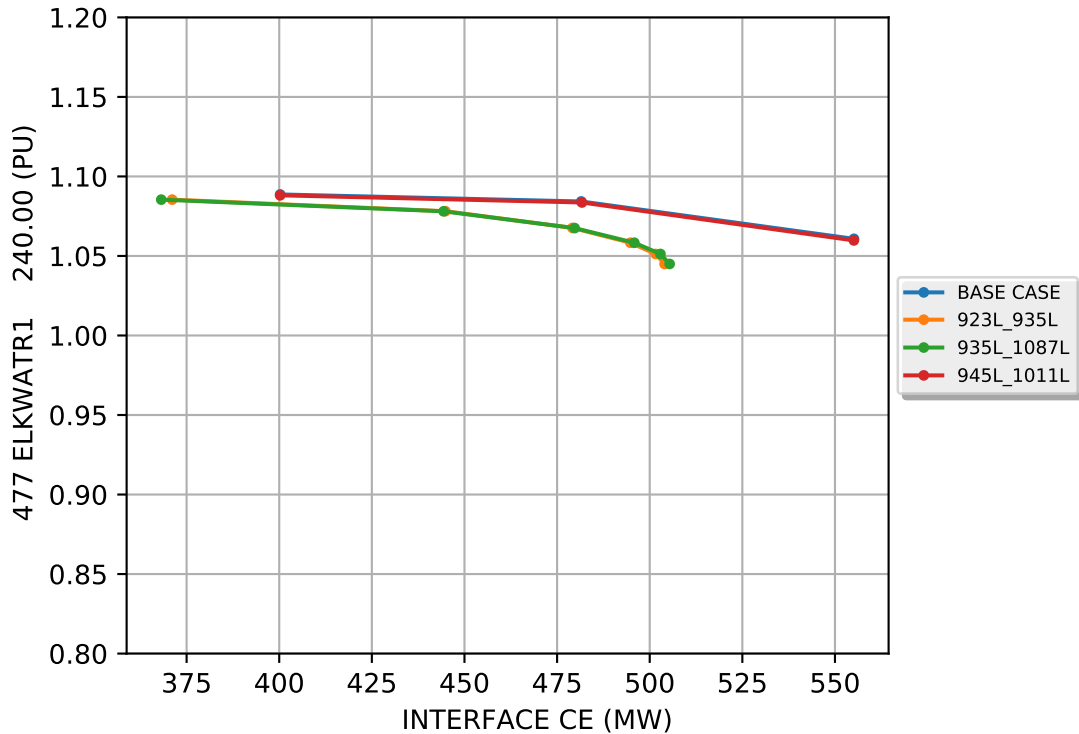


Figure: E-4-165

Case: H9, Option: PRE

Min Voltage: 1.00 PU, Min Margin: 35.8%

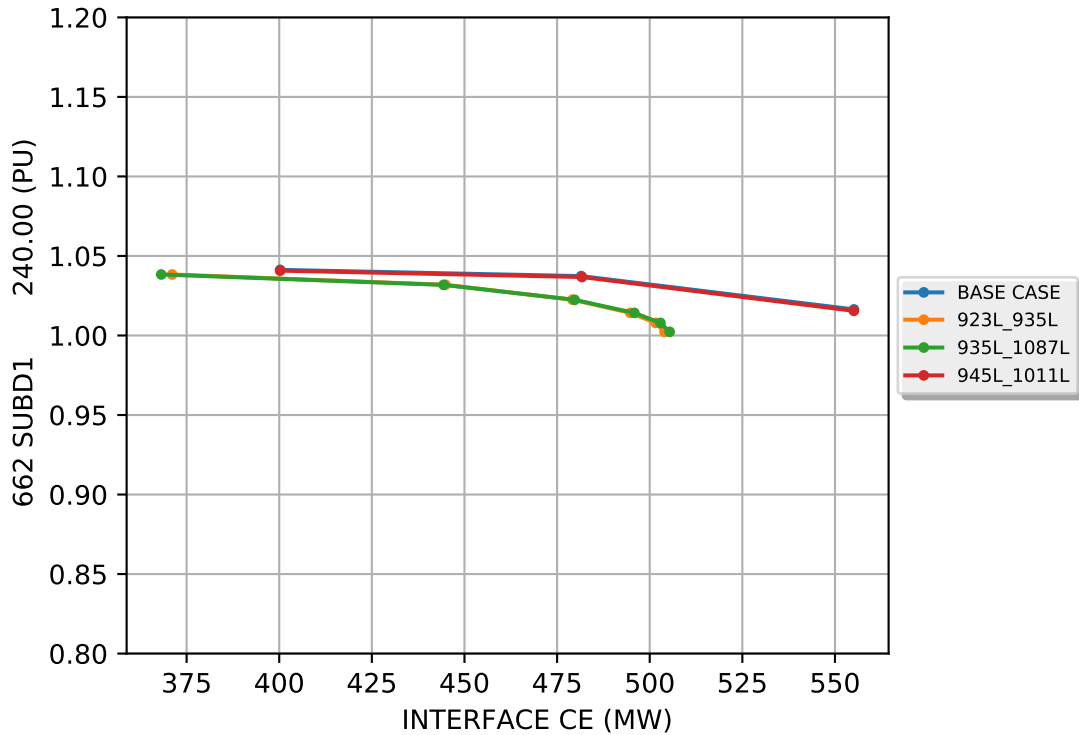


Figure: E-4-166

Case: H9, Option: PRE

Min Voltage: 1.00 PU, Min Margin: 35.8%

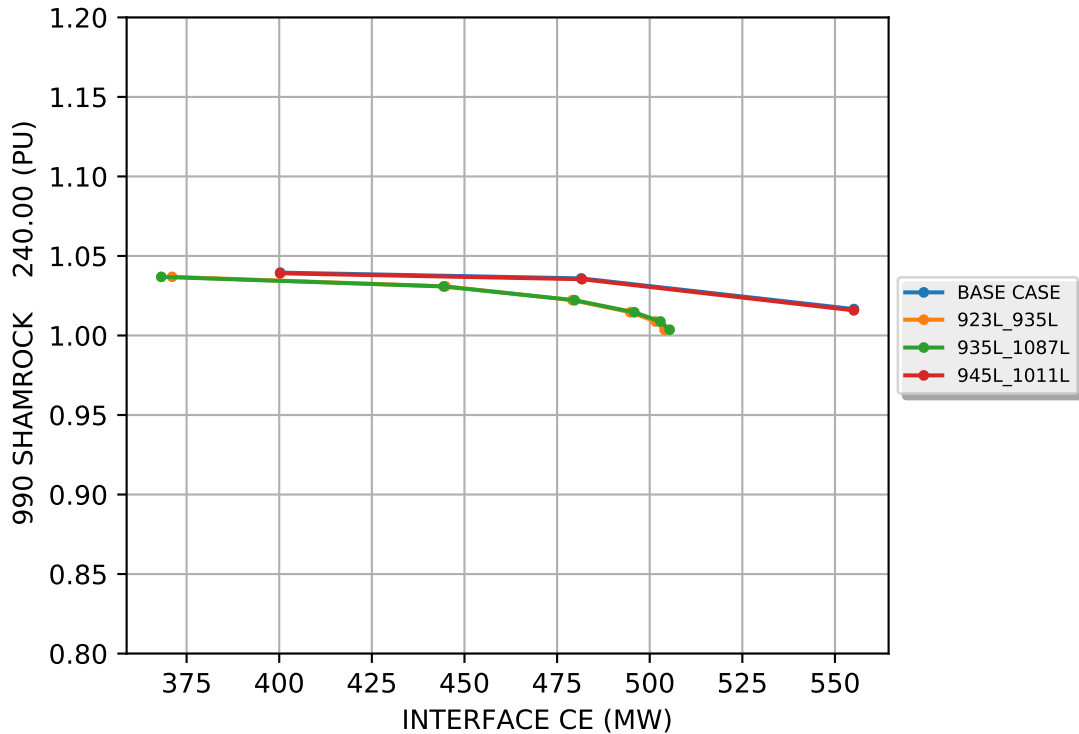


Figure: E-4-167

Case: H9, Option: PRE

Min Voltage: 1.04 PU, Min Margin: 35.8%

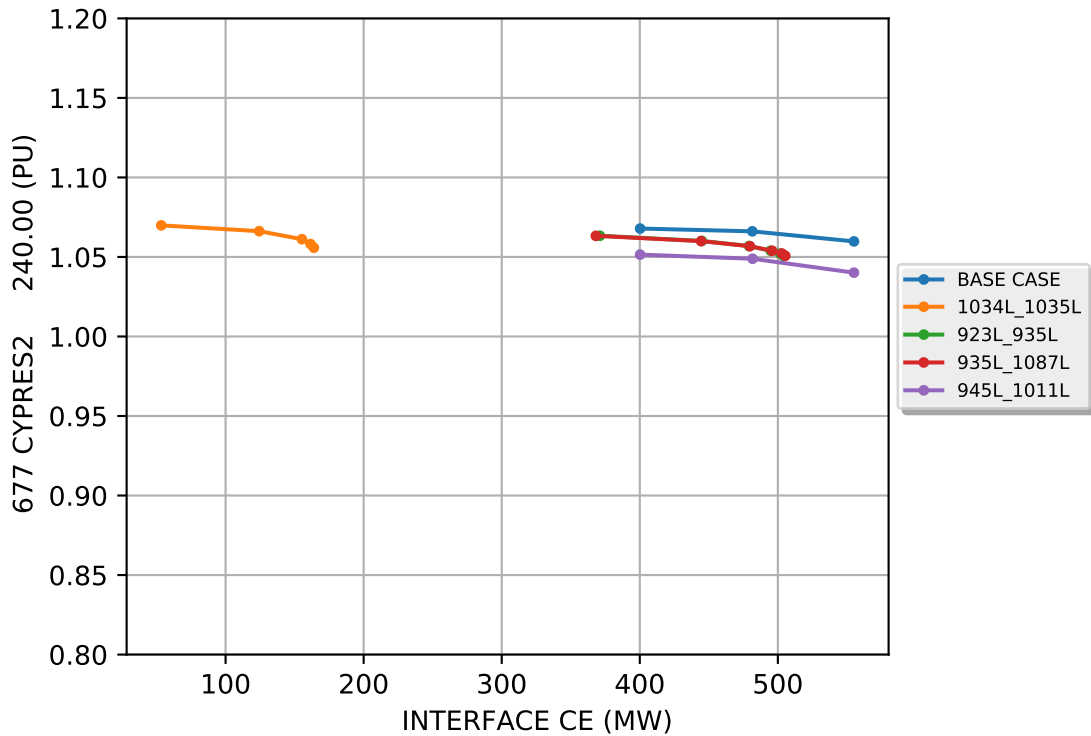


Figure: E-4-168

Case: H9, Option: PRE

Min Voltage: 1.05 PU, Min Margin: 35.8%

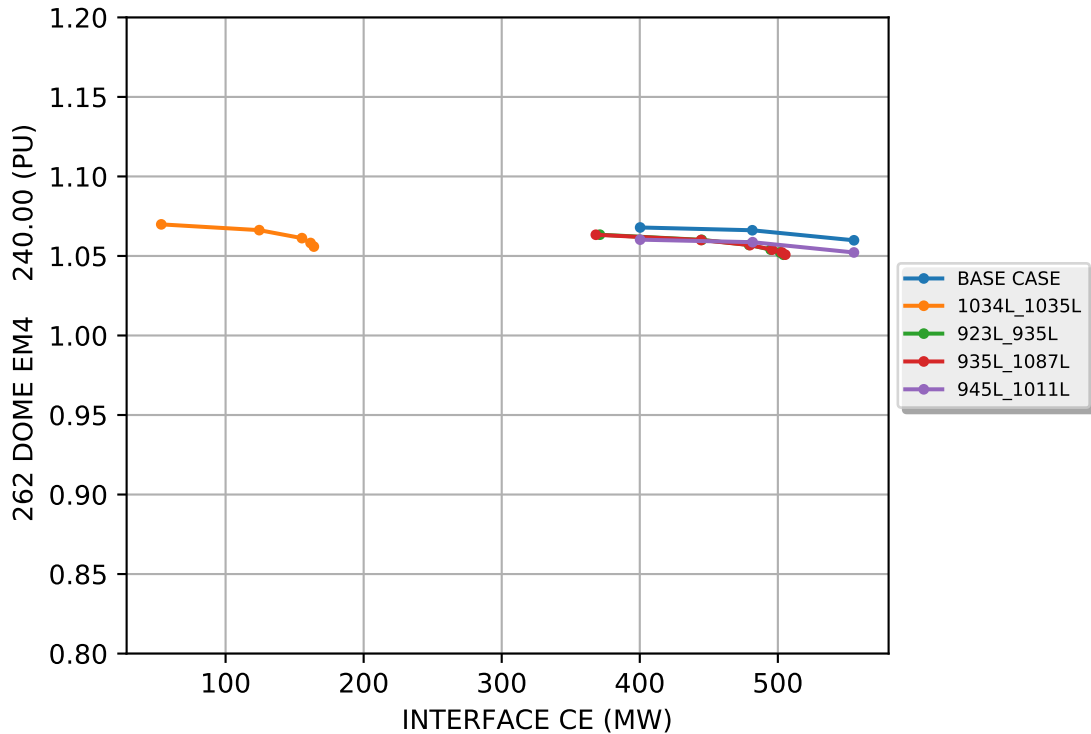


Figure: E-4-169

Case: H9, Option: PRE

Min Voltage: 1.06 PU, Min Margin: 35.8%

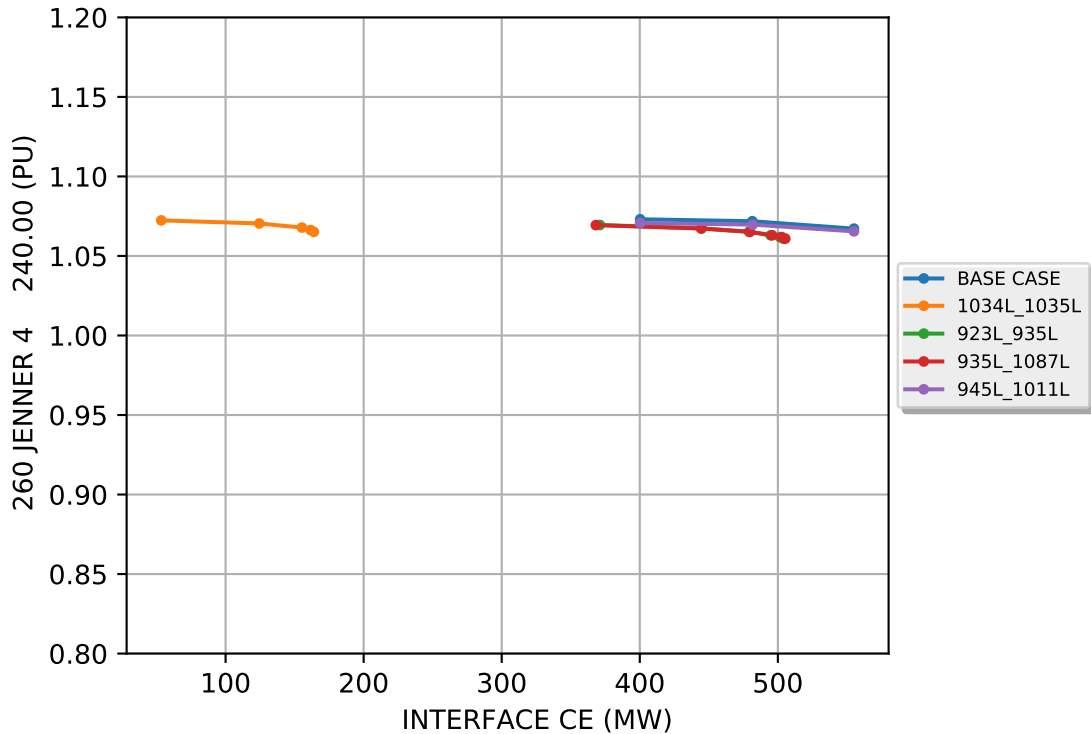


Figure: E-4-170

Case: H9, Option: PRE

Min Voltage: 1.06 PU, Min Margin: 35.8%

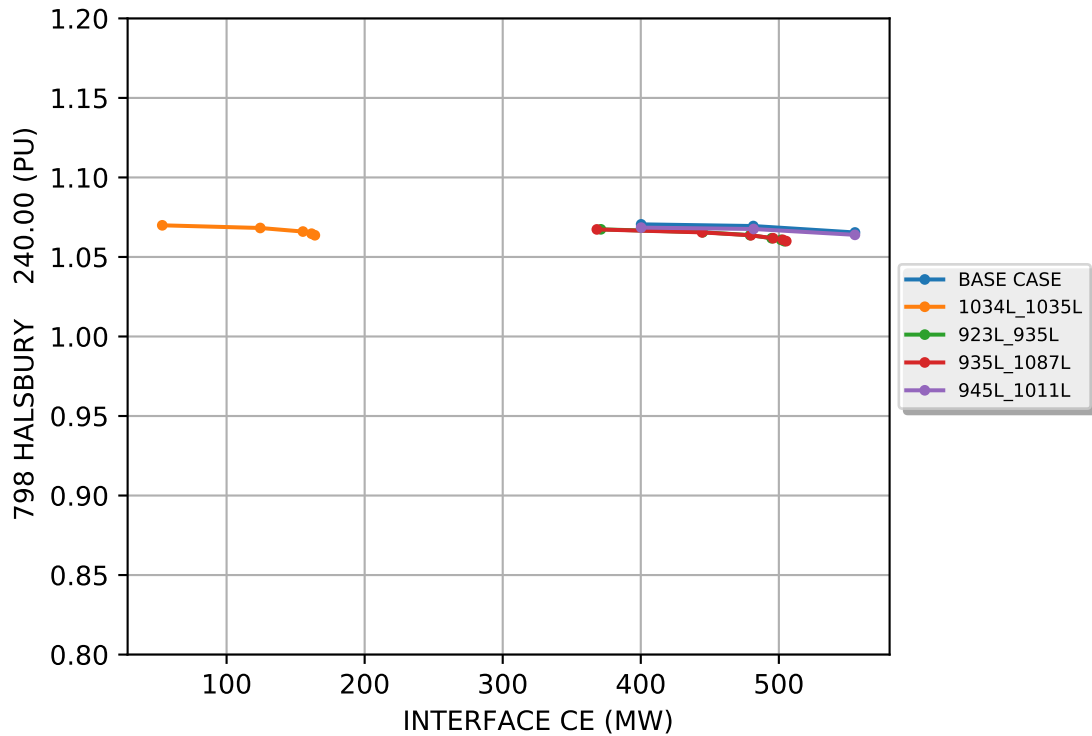


Figure: E-4-171

Case: M13, Option: PRE

Min Voltage: 0.88 PU, Min Margin: 27.4%

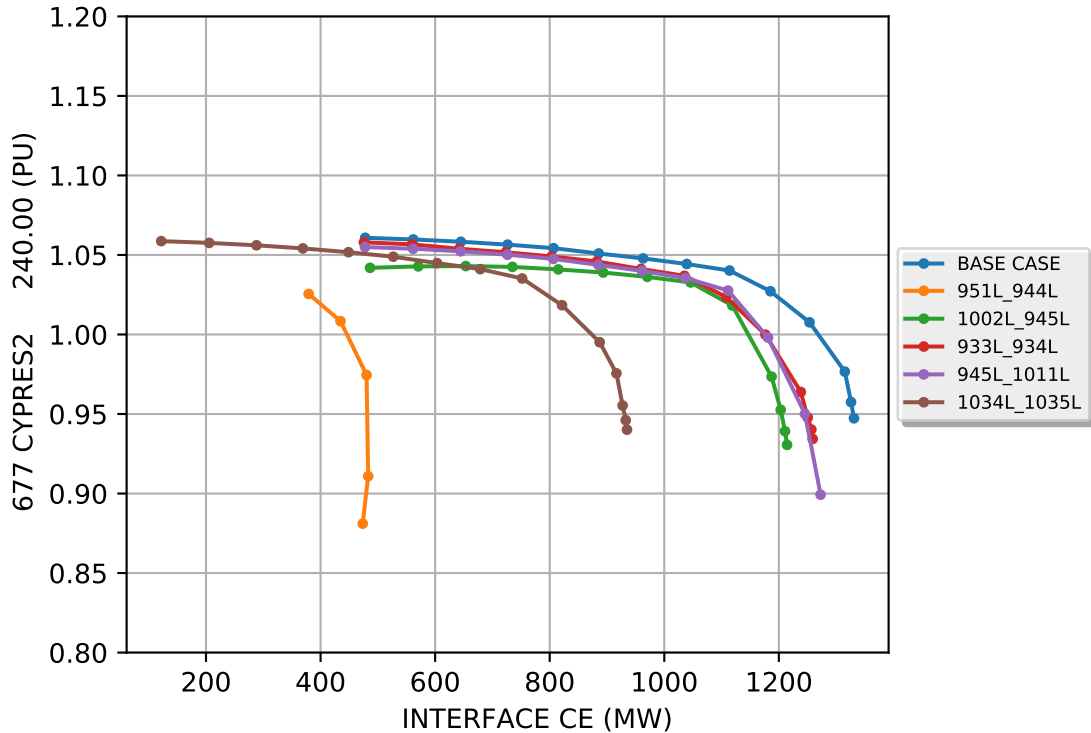


Figure: E-4-172

Case: M13, Option: PRE

Min Voltage: 0.88 PU, Min Margin: 27.4%

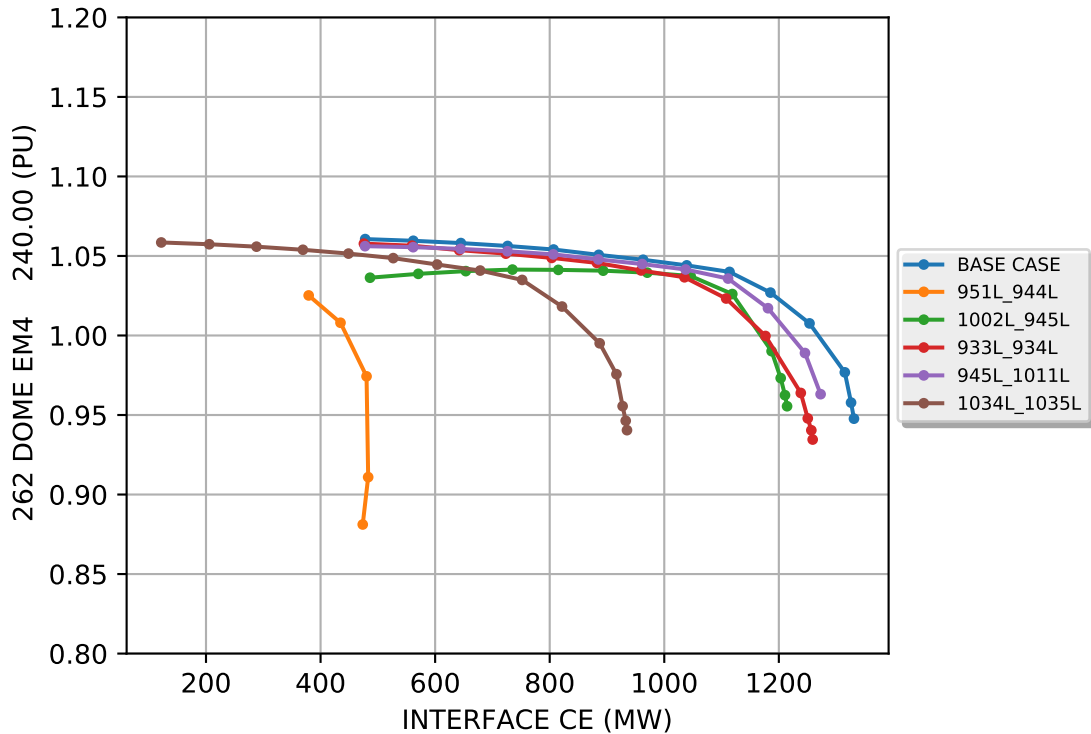


Figure: E-4-173

Case: M13, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 27.4%

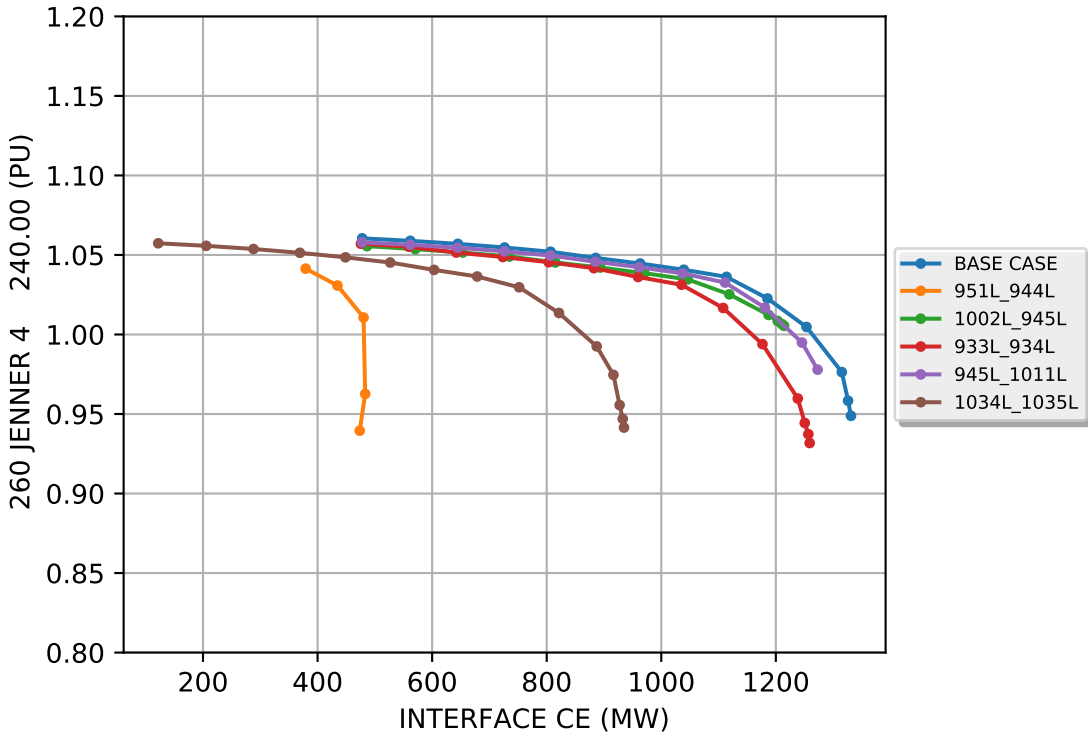


Figure: E-4-174

Case: M13, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 27.4%

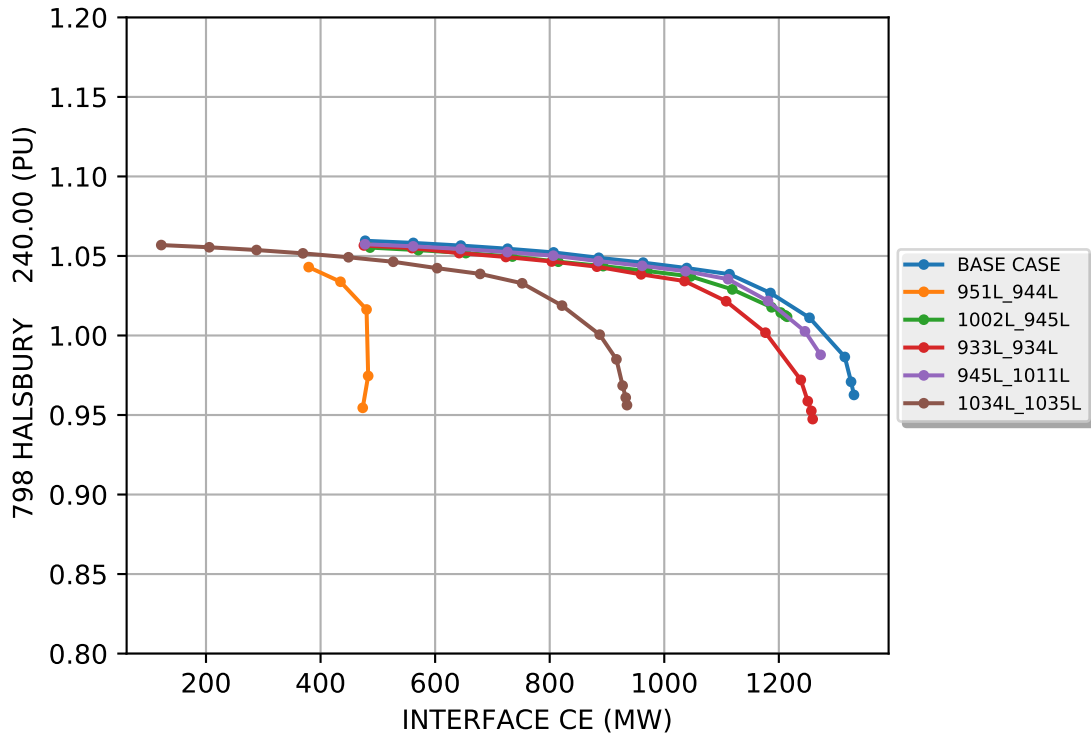


Figure: E-4-175

Case: M13, Option: PRE

Min Voltage: 0.96 PU, Min Margin: 27.4%

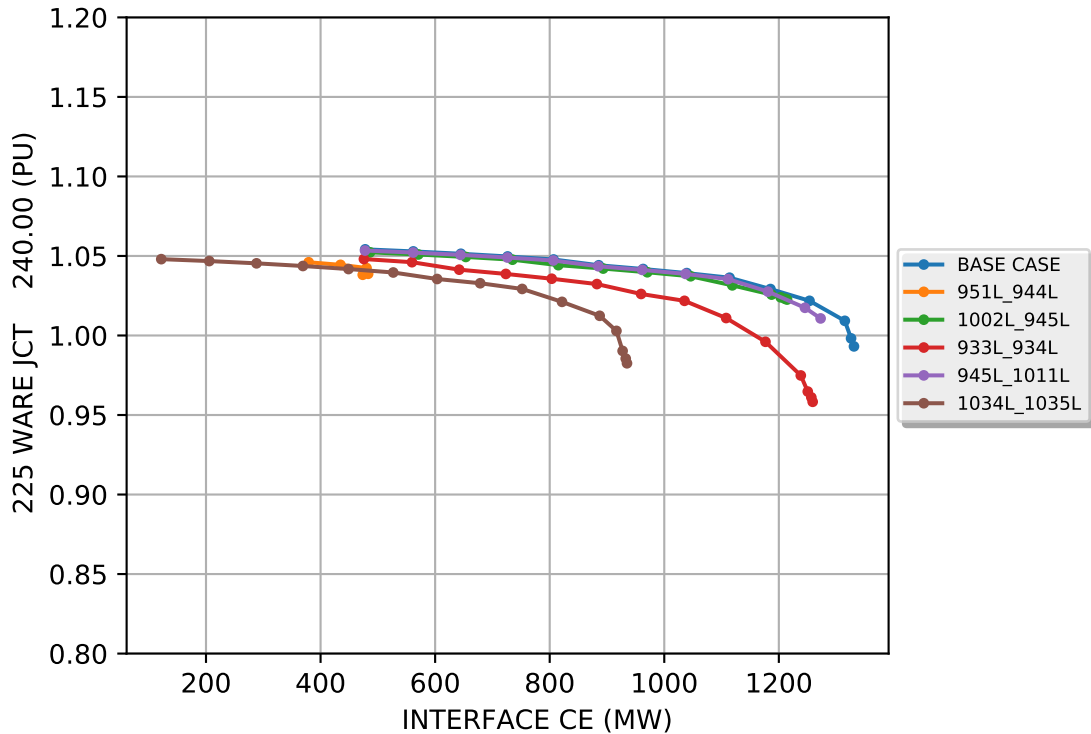


Figure: E-4-176

Case: M13, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 27.4%

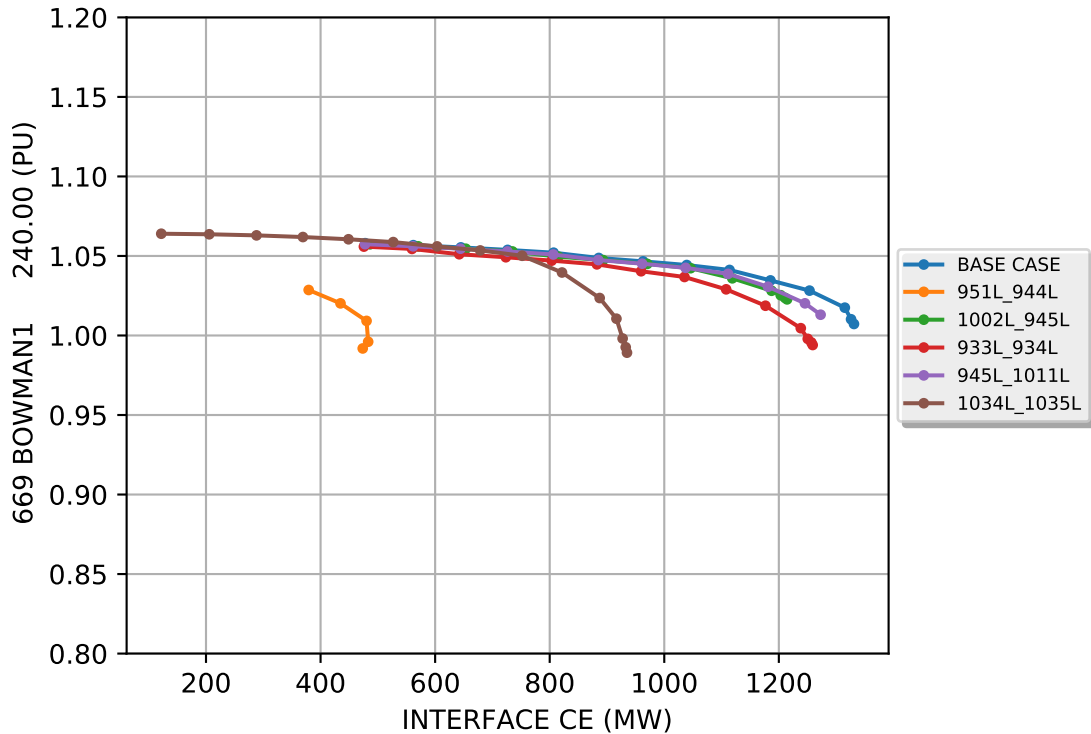


Figure: E-4-177

Case: M13, Option: PRE

Min Voltage: 1.00 PU, Min Margin: 27.4%

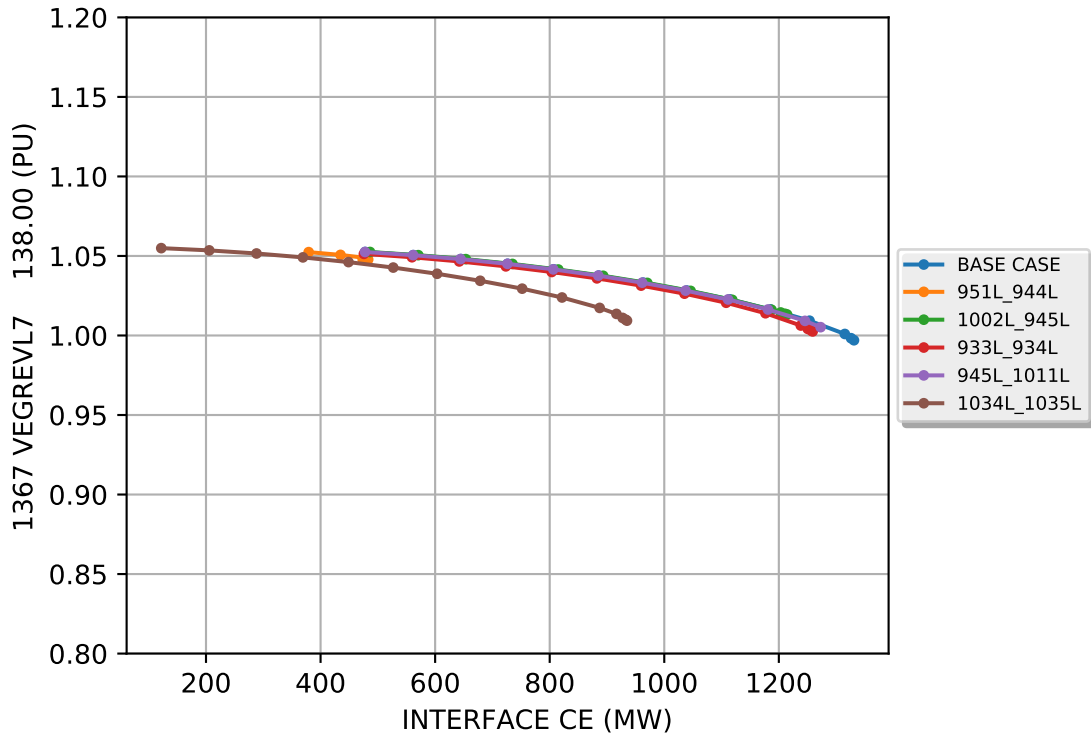


Figure: E-4-178

Case: M14, Option: PRE

Min Voltage: 0.90 PU, Min Margin: 14.5%

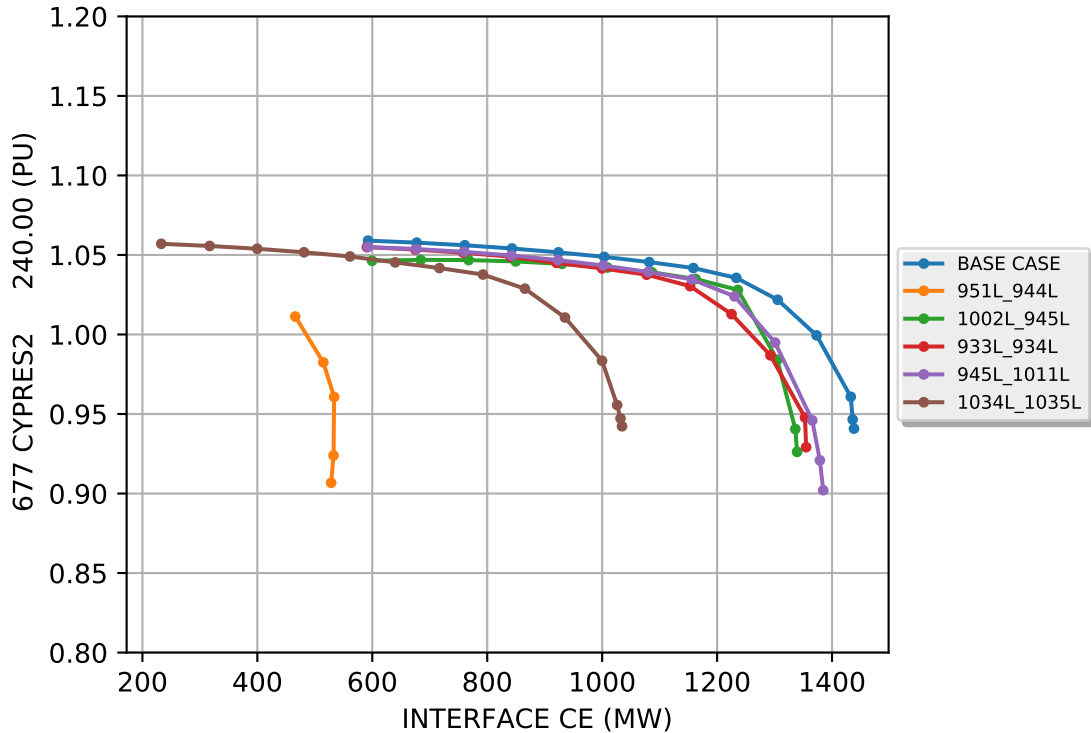


Figure: E-4-179

Case: M14, Option: PRE

Min Voltage: 0.91 PU, Min Margin: 14.5%

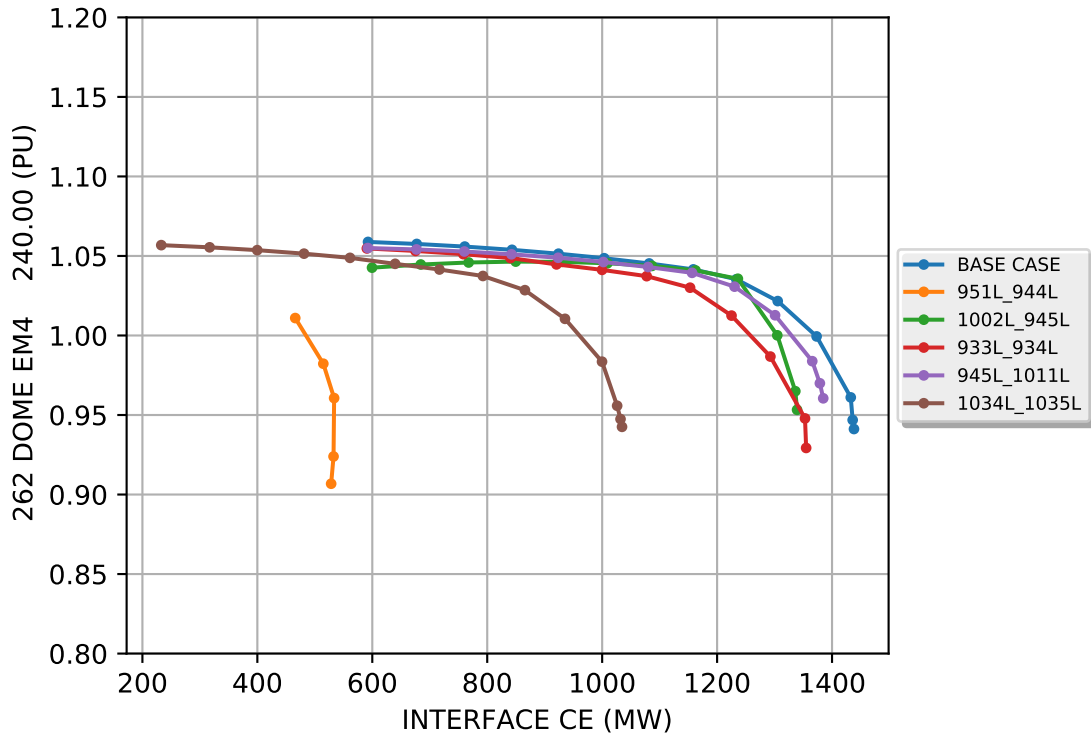


Figure: E-4-180

Case: M14, Option: PRE

Min Voltage: 0.92 PU, Min Margin: 14.5%

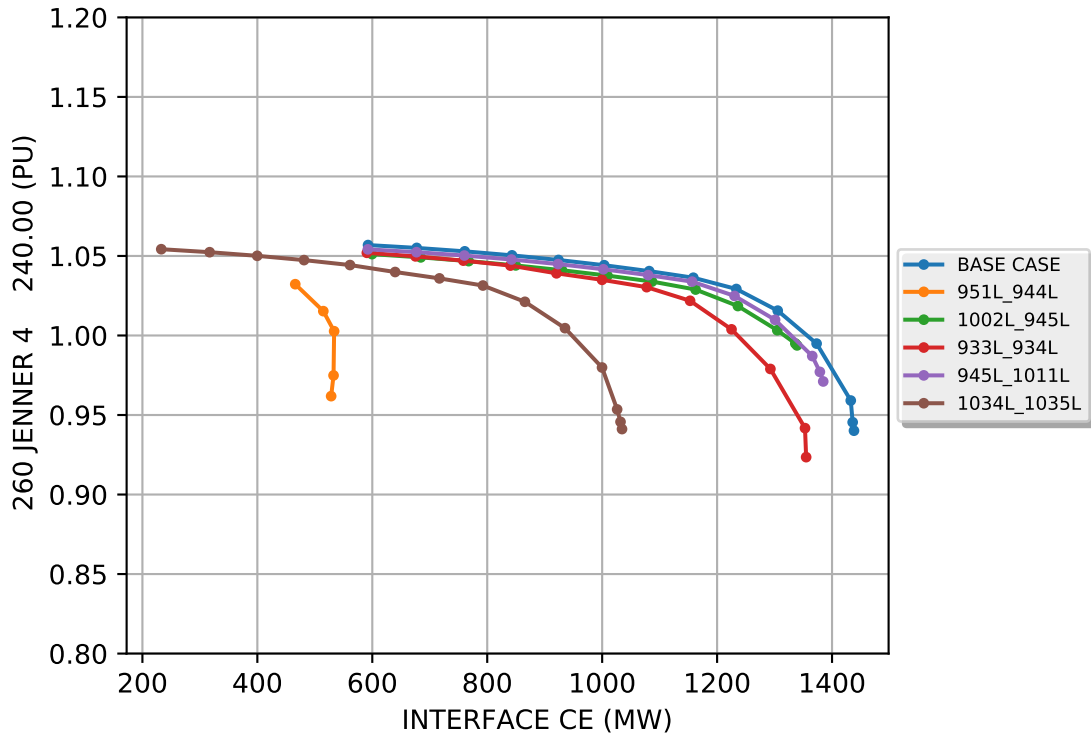


Figure: E-4-181

Case: M14, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 14.5%

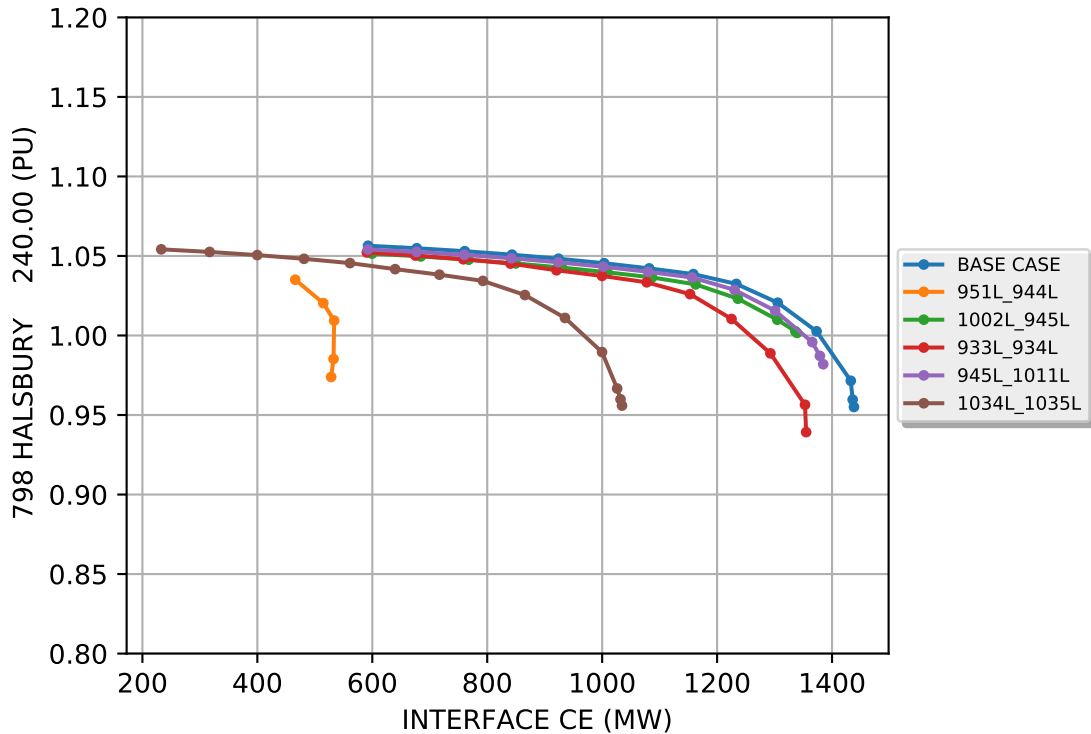


Figure: E-4-182

Case: M14, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 14.5%

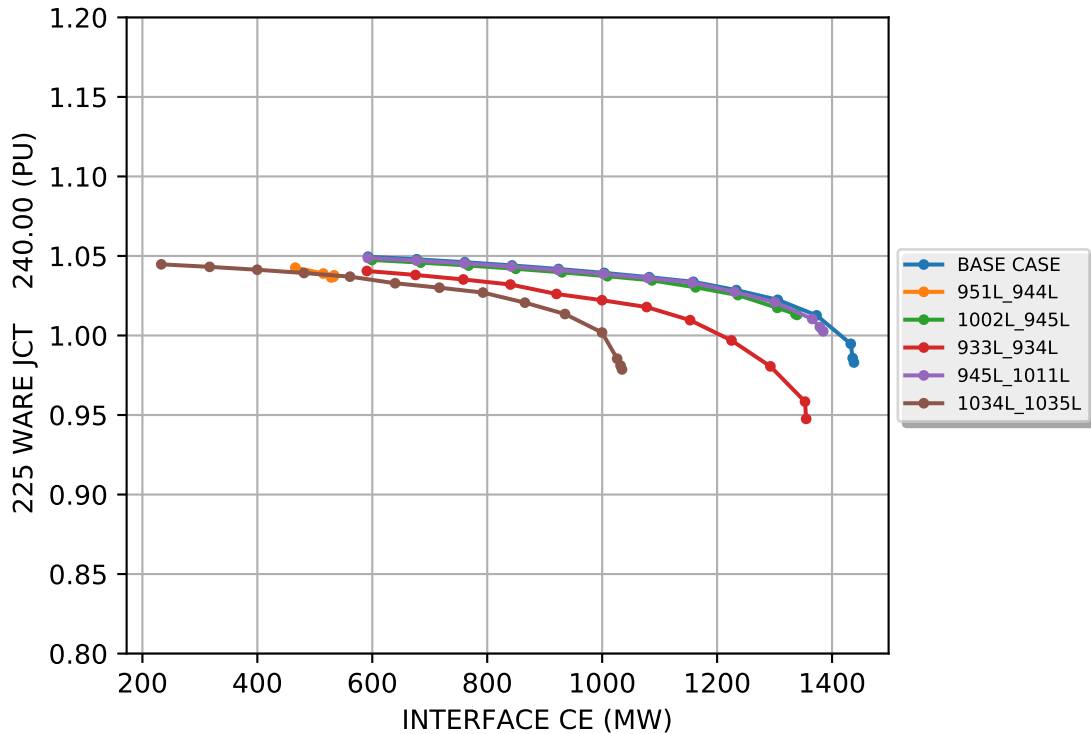


Figure: E-4-183

Case: M14, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 14.5%

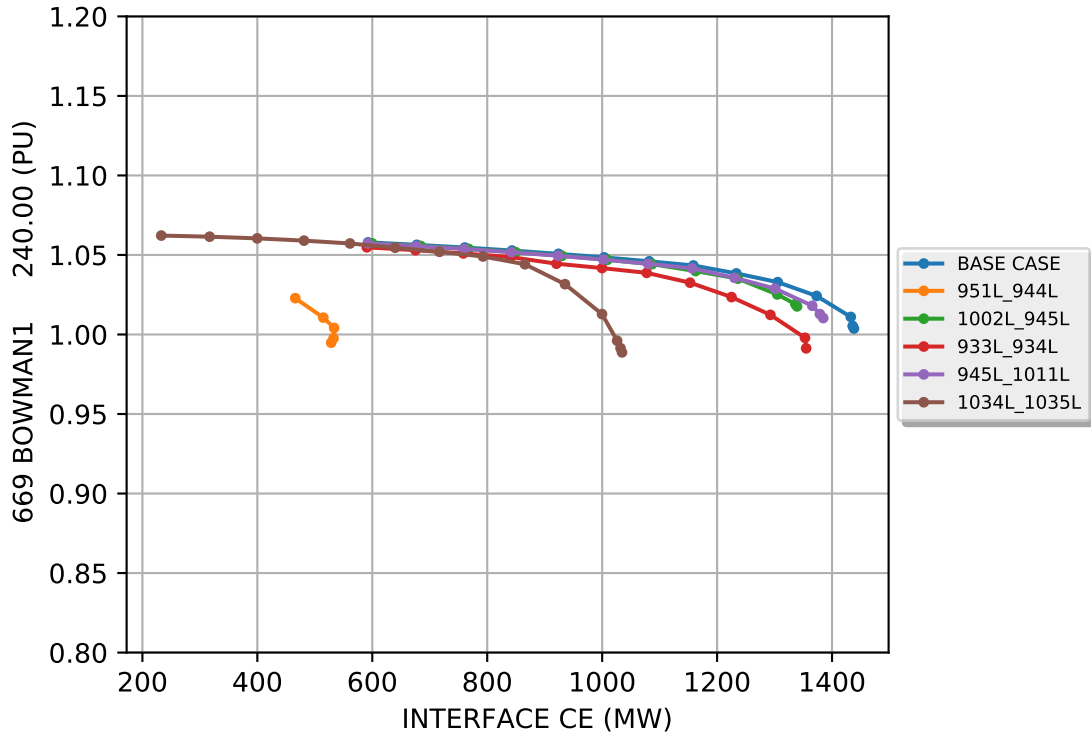


Figure: E-4-184

Case: M14, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 14.5%

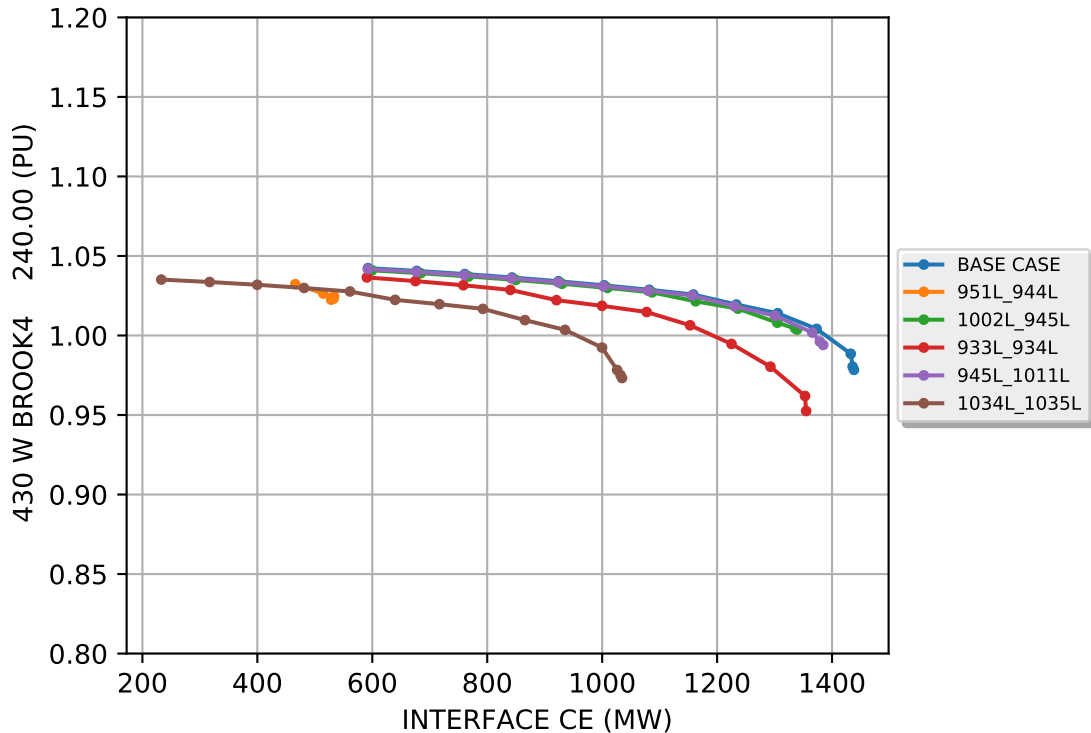


Figure: E-4-185

Case: M10, Option: PRE

Min Voltage: 0.91 PU, Min Margin: 146.0%

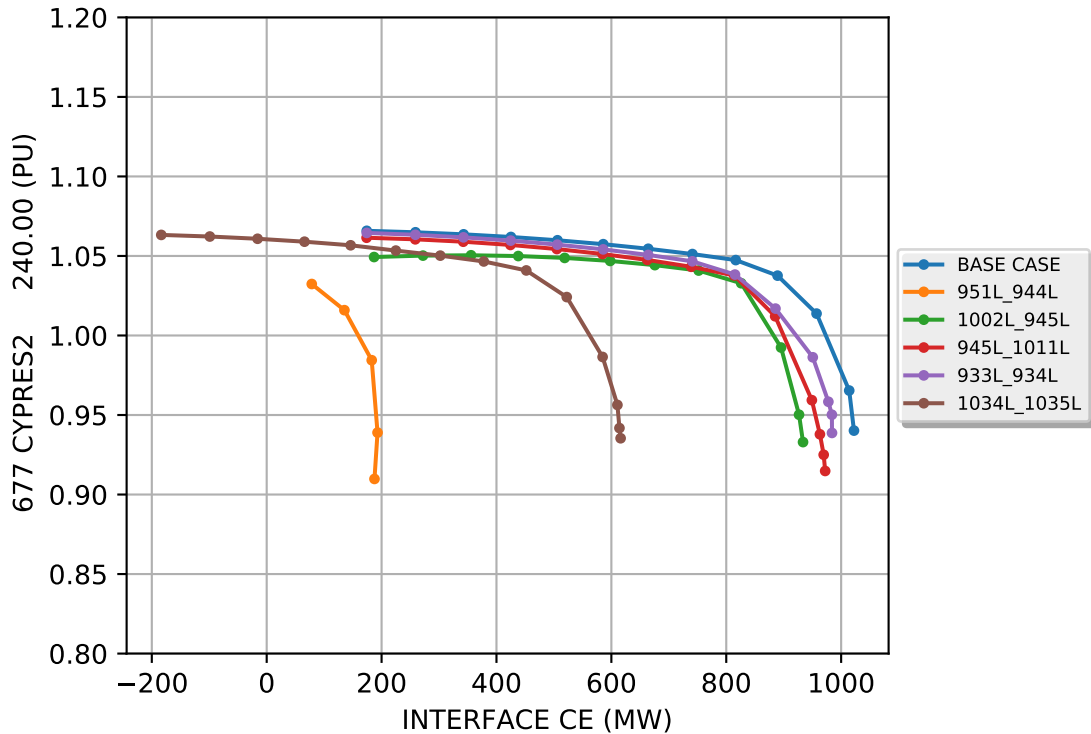


Figure: E-4-186

Case: M10, Option: PRE

Min Voltage: 0.91 PU, Min Margin: 146.0%

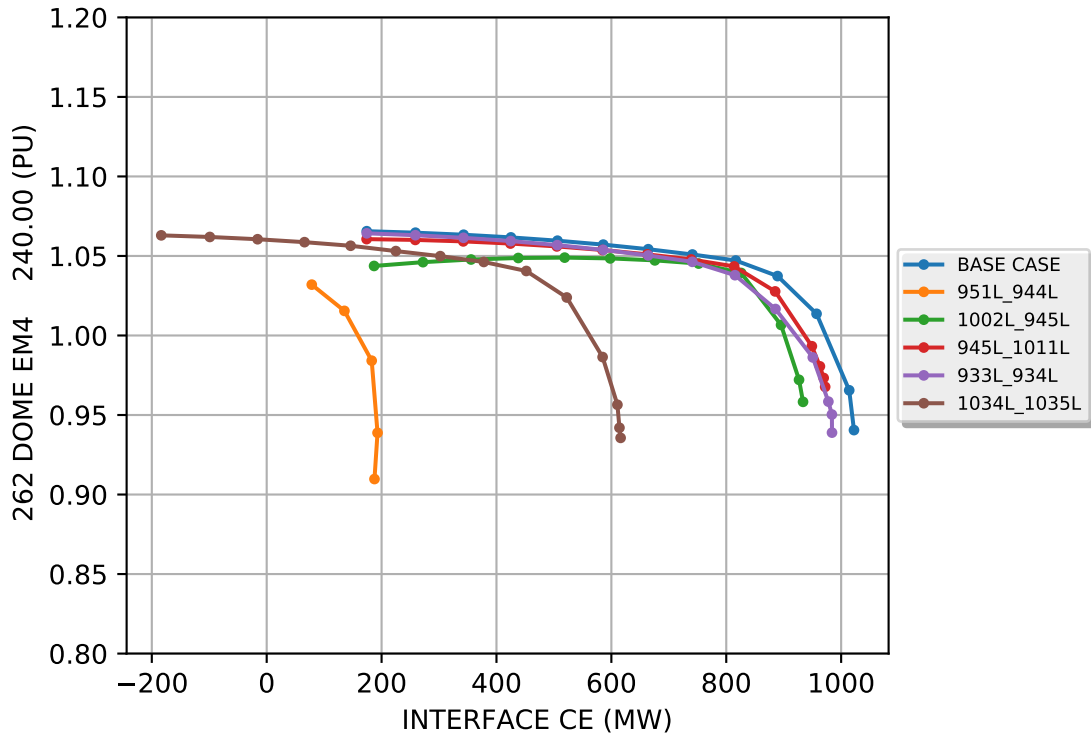


Figure: E-4-187

Case: M10, Option: PRE

Min Voltage: 0.94 PU, Min Margin: 146.0%

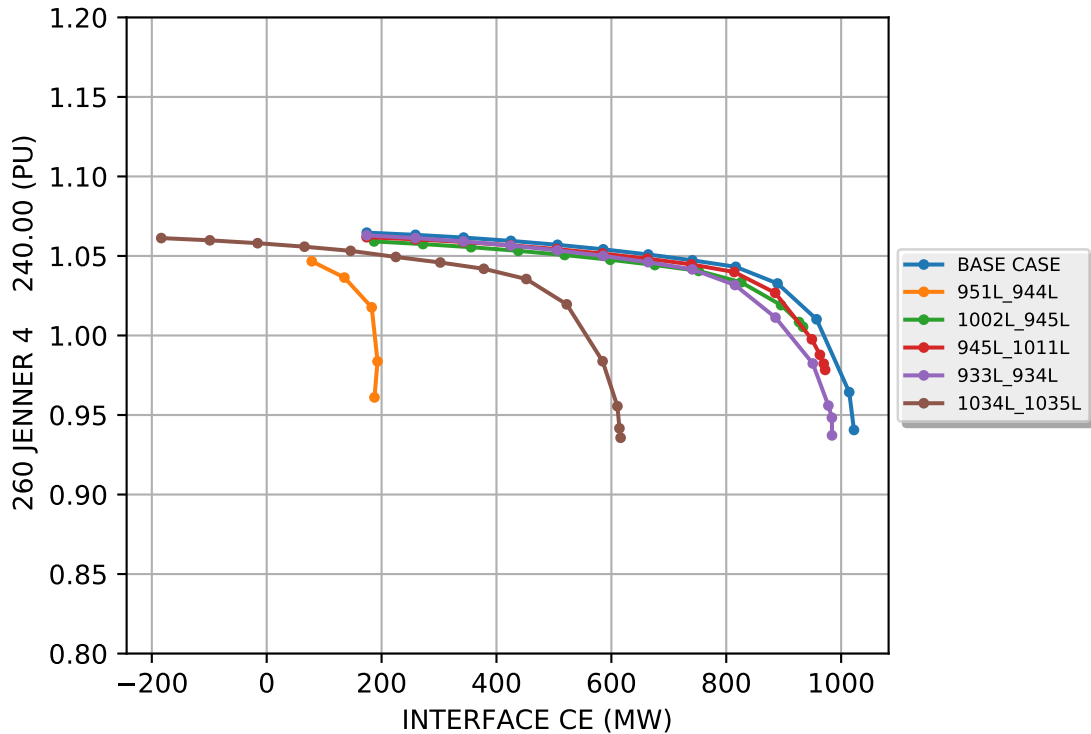


Figure: E-4-188

Case: M10, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 146.0%

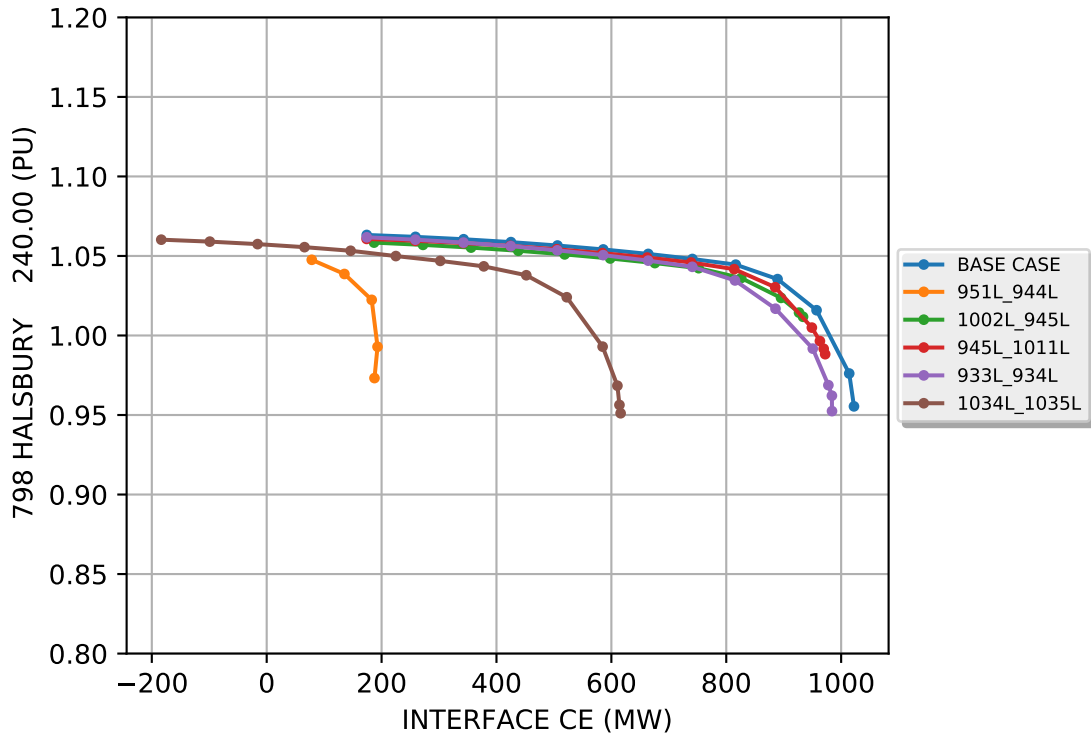


Figure: E-4-189

Case: M10, Option: PRE

Min Voltage: 0.97 PU, Min Margin: 146.0%

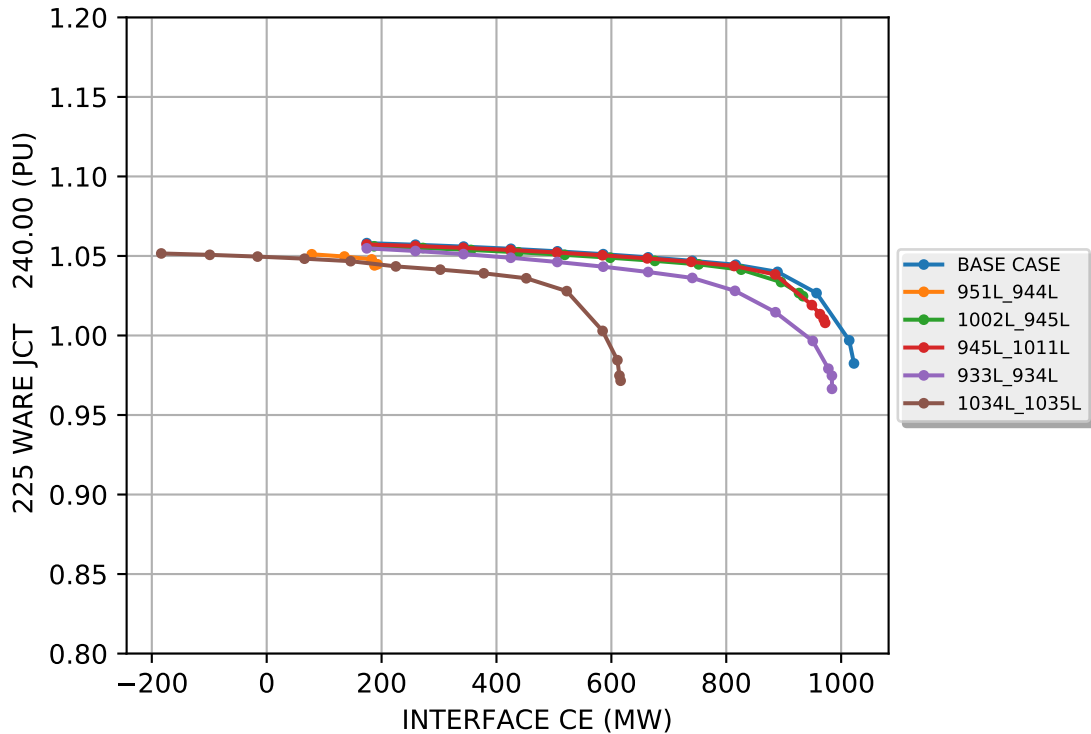


Figure: E-4-190

Case: M10, Option: PRE

Min Voltage: 1.00 PU, Min Margin: 146.0%

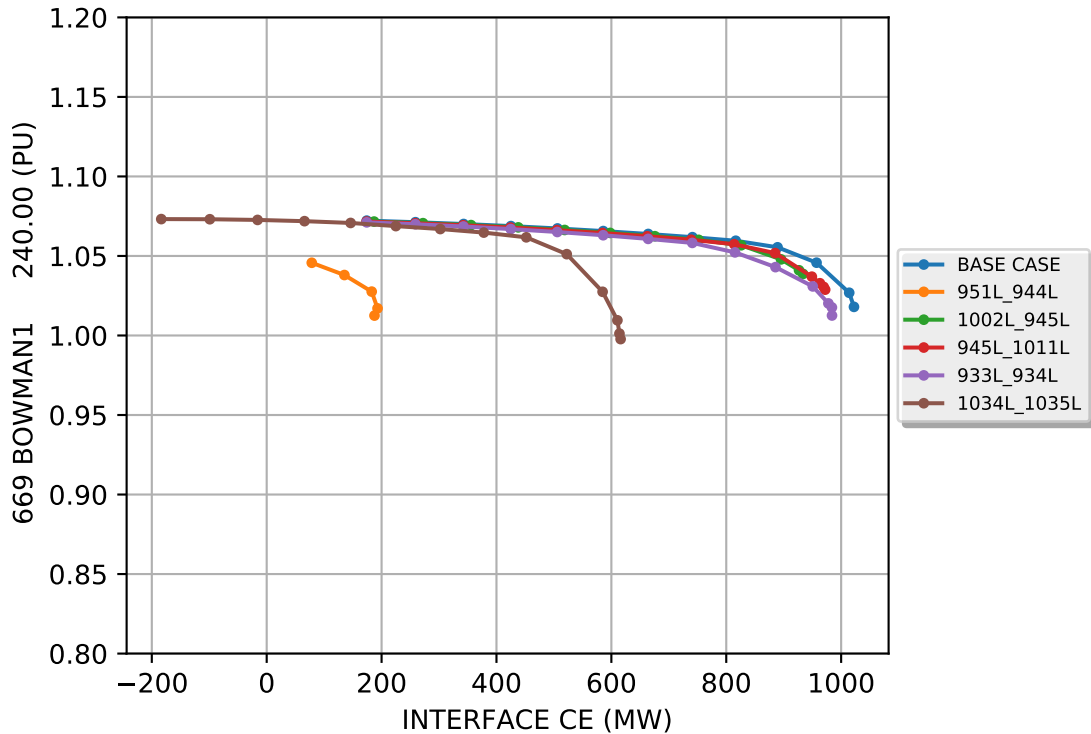


Figure: E-4-191

Case: M10, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 146.0%

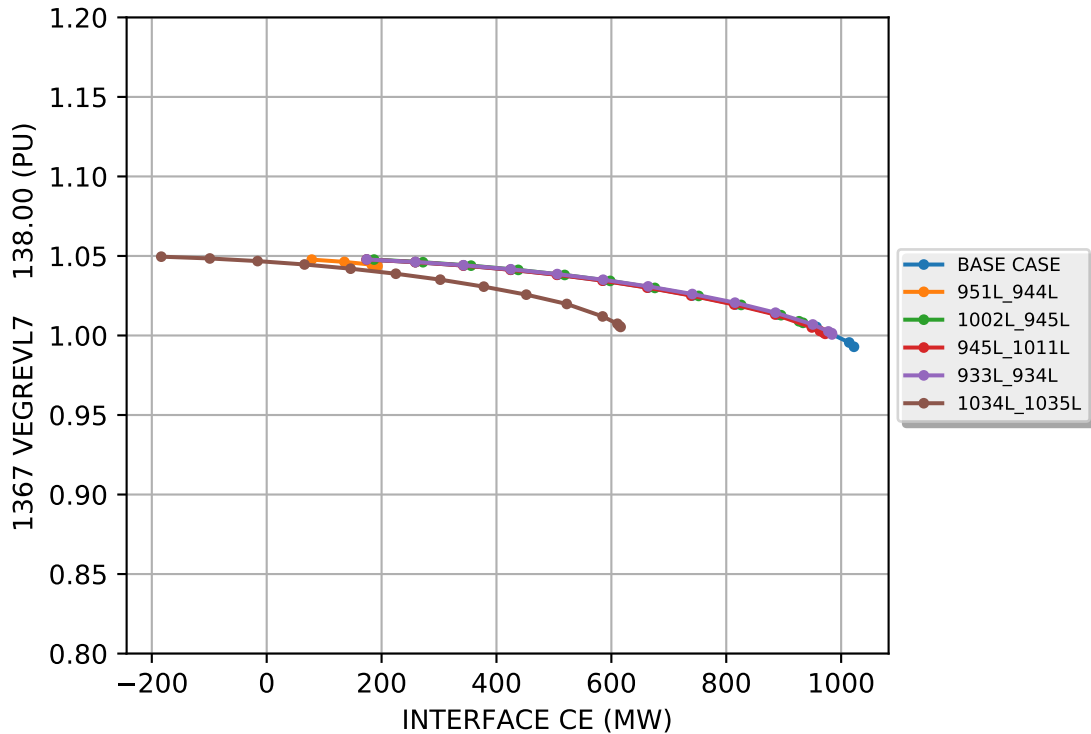


Figure: E-4-192

Case: M11, Option: PRE

Min Voltage: 0.90 PU, Min Margin: 23.3%

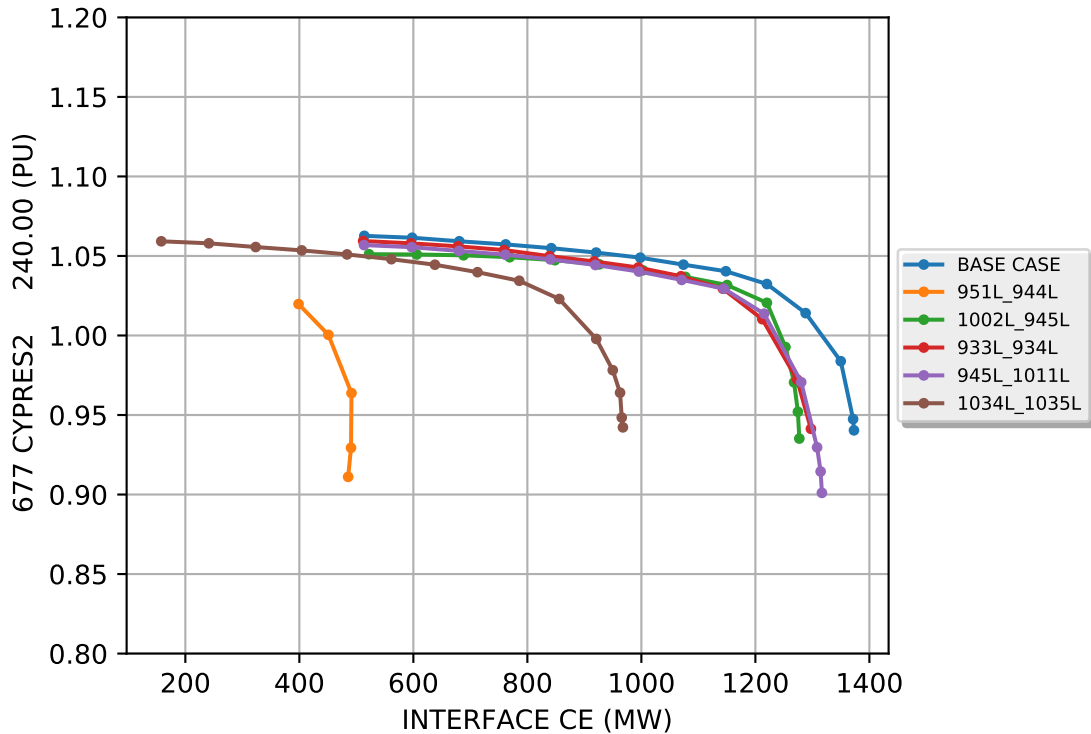


Figure: E-4-193

Case: M11, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 23.3%

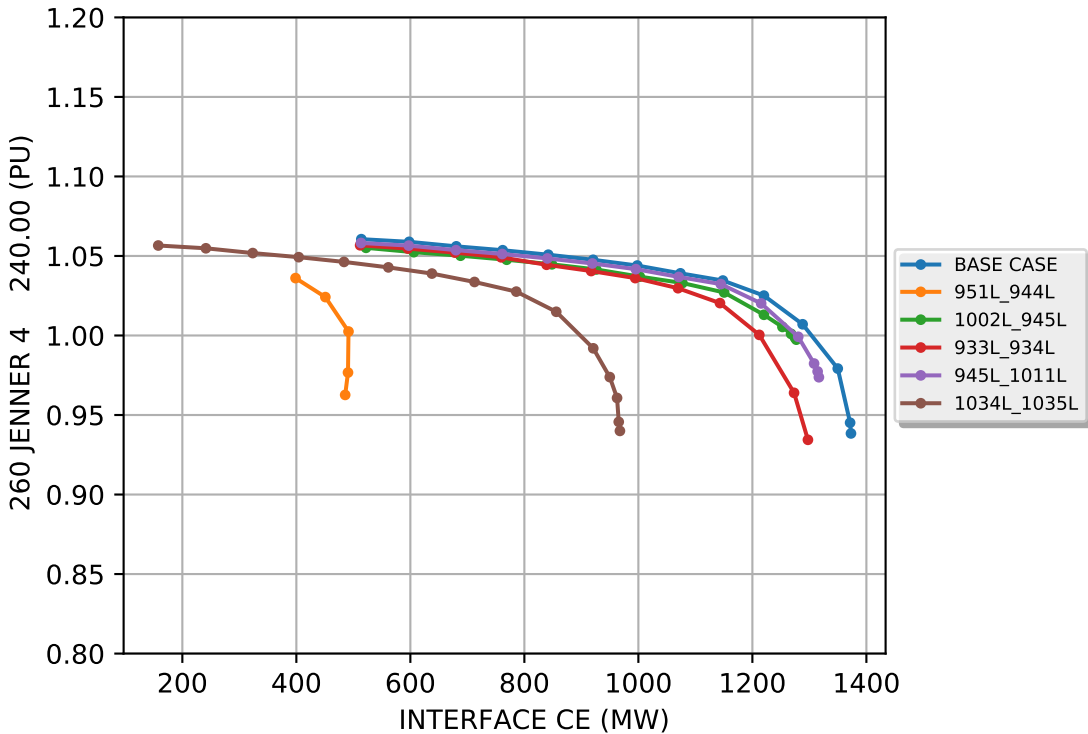


Figure: E-4-194

Case: M11, Option: PRE

Min Voltage: 0.91 PU, Min Margin: 23.3%

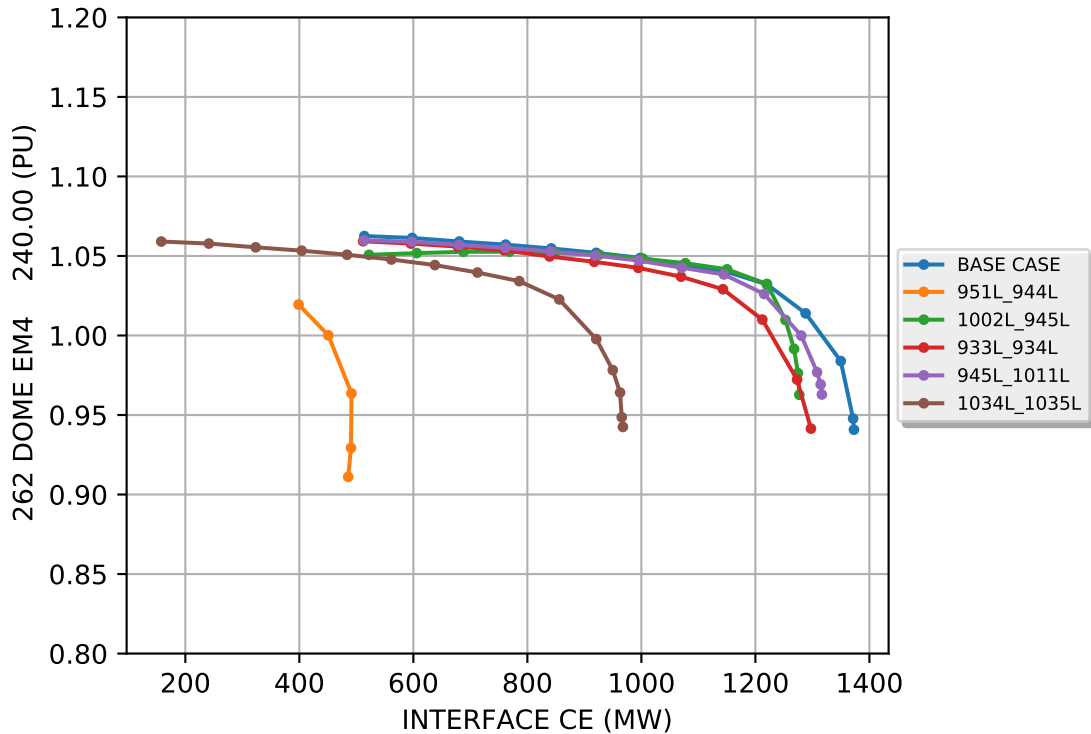


Figure: E-4-195

Case: M11, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 23.3%

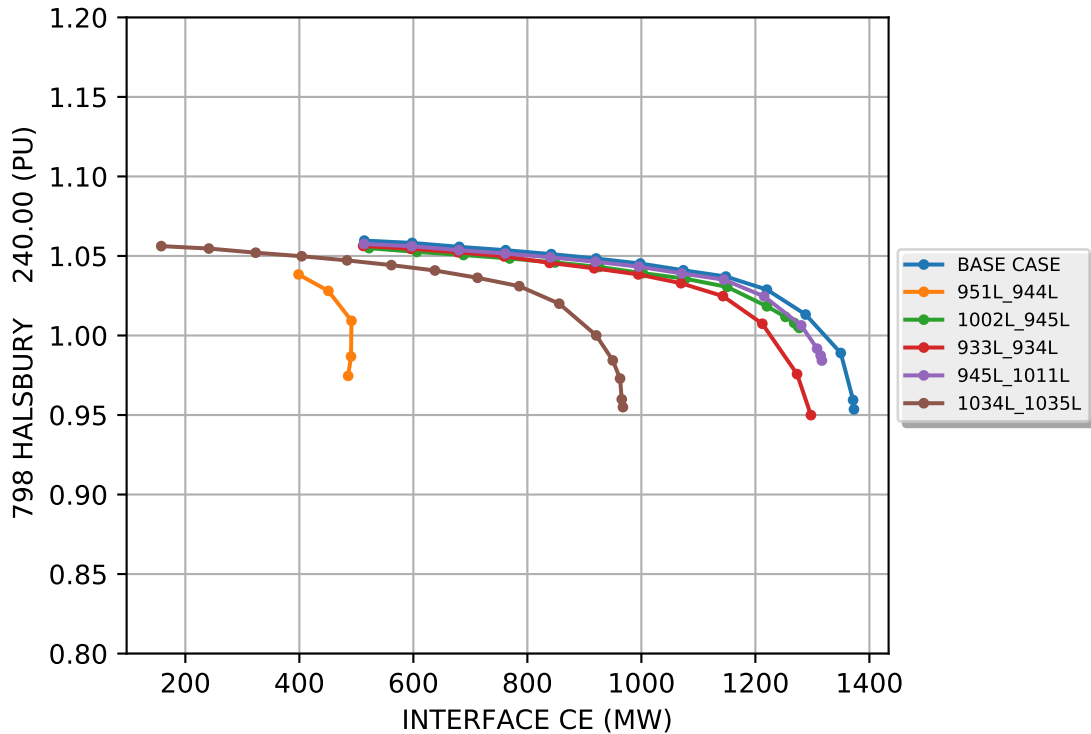


Figure: E-4-196

Case: M11, Option: PRE

Min Voltage: 0.96 PU, Min Margin: 23.3%

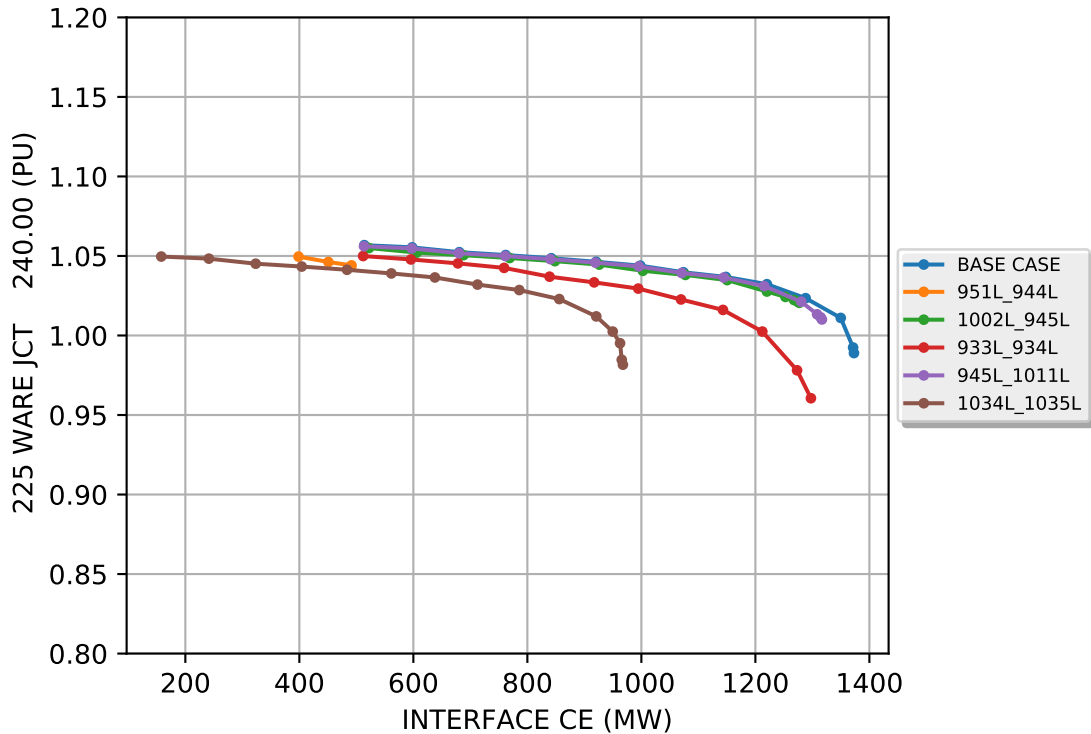


Figure: E-4-197

Case: M11, Option: PRE

Min Voltage: 0.99 PU, Min Margin: 23.3%

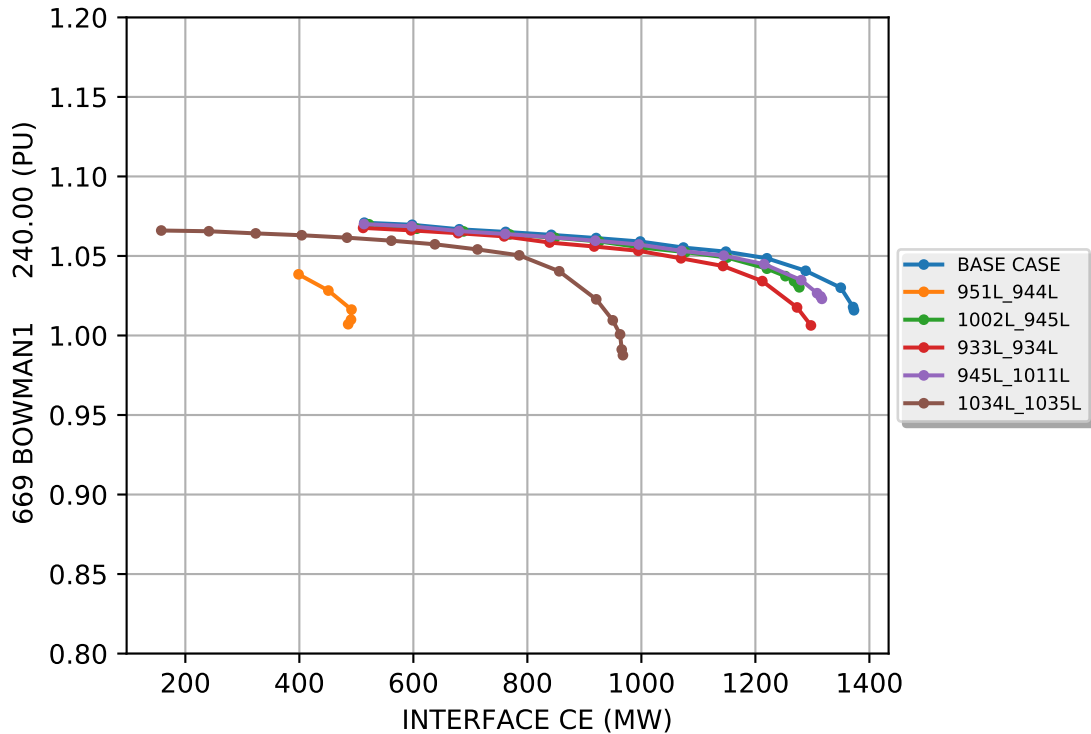


Figure: E-4-198

Case: M11, Option: PRE

Min Voltage: 0.97 PU, Min Margin: 23.3%

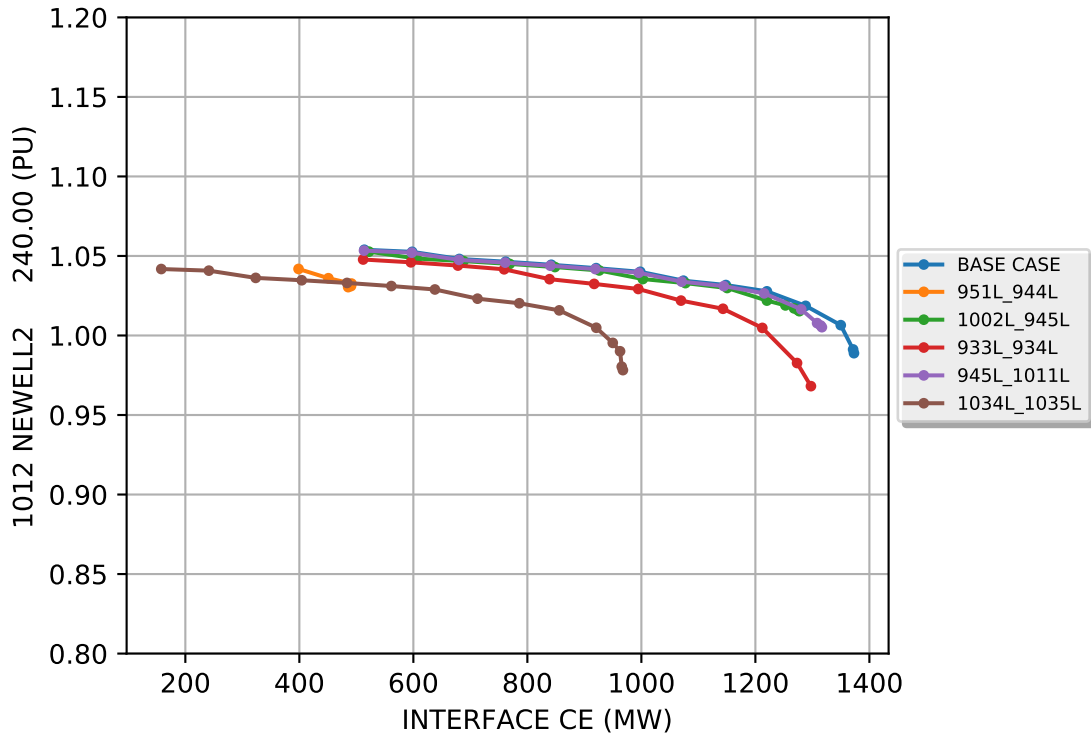


Figure: E-4-199

Case: M12, Option: PRE

Min Voltage: 0.89 PU, Min Margin: 26.9%

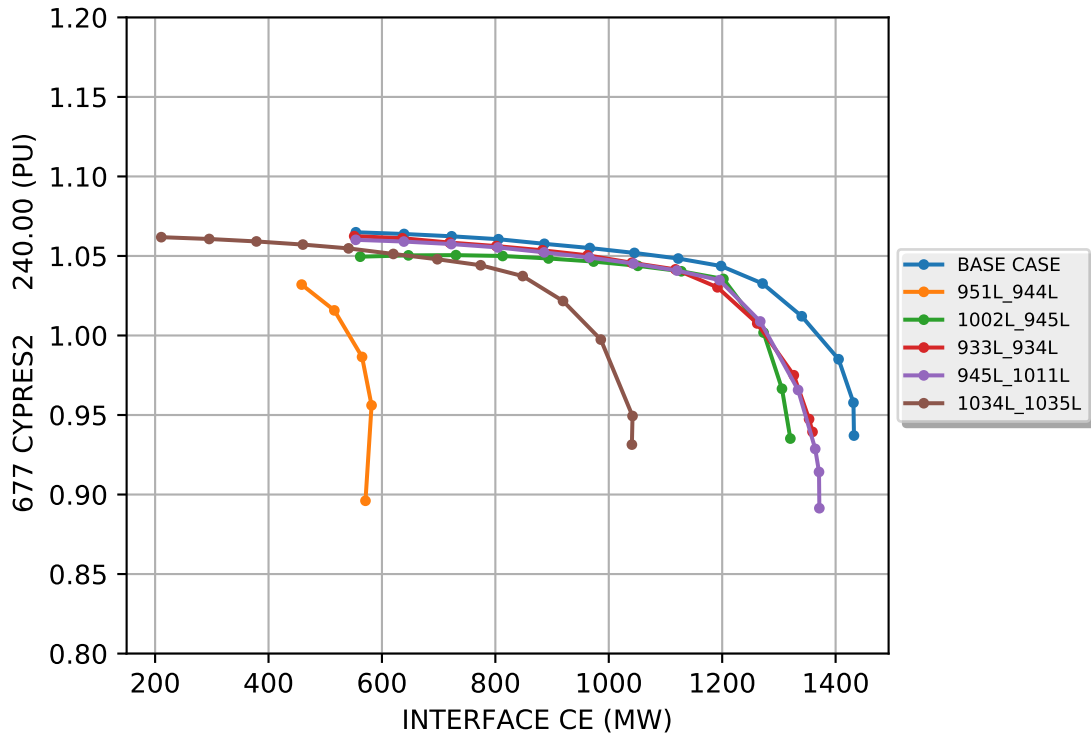


Figure: E-4-200

Case: M12, Option: PRE

Min Voltage: 0.90 PU, Min Margin: 26.9%

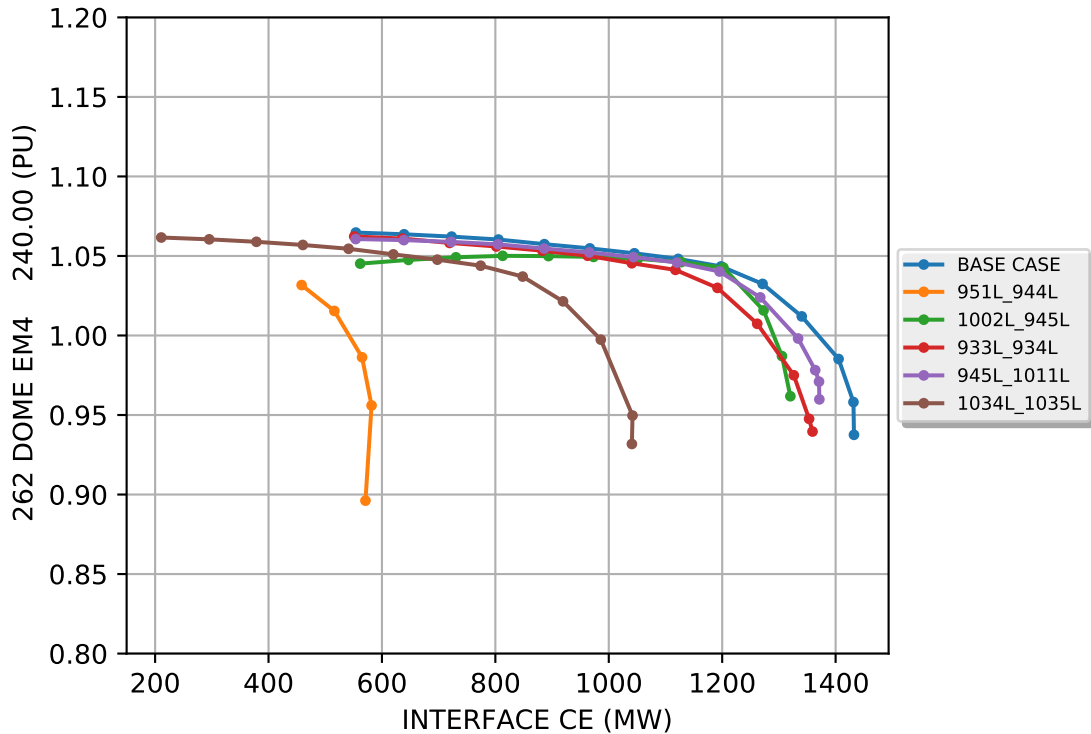


Figure: E-4-201

Case: M12, Option: PRE

Min Voltage: 0.93 PU, Min Margin: 26.9%

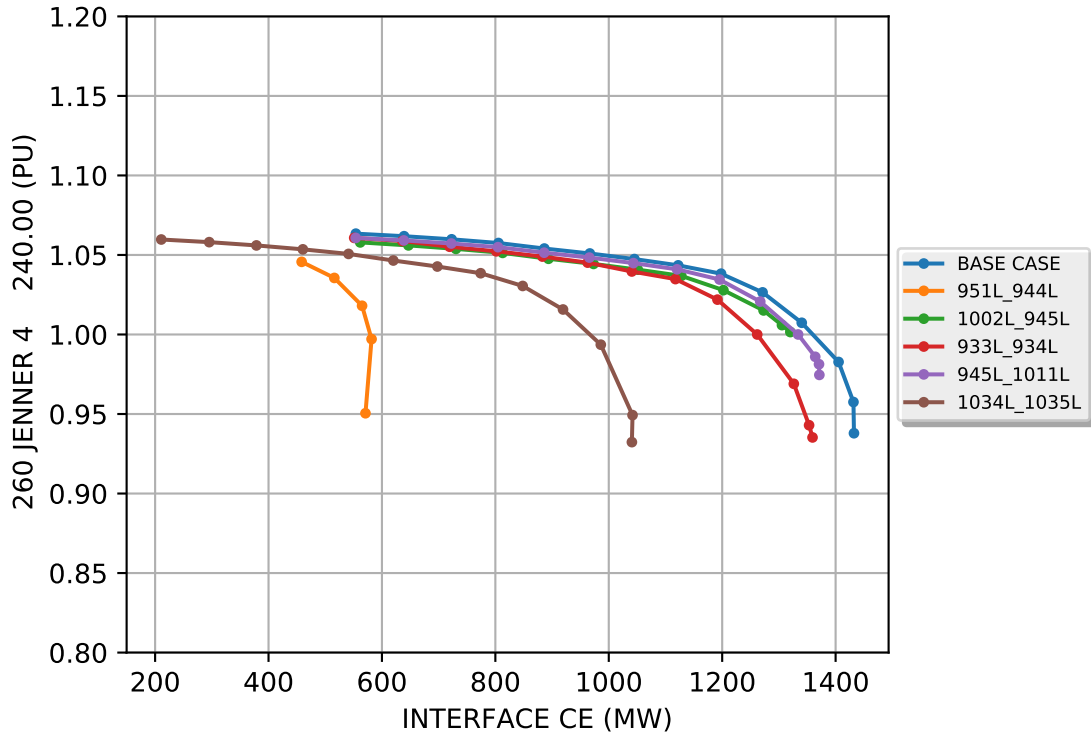


Figure: E-4-202

Case: M12, Option: PRE

Min Voltage: 0.95 PU, Min Margin: 26.9%

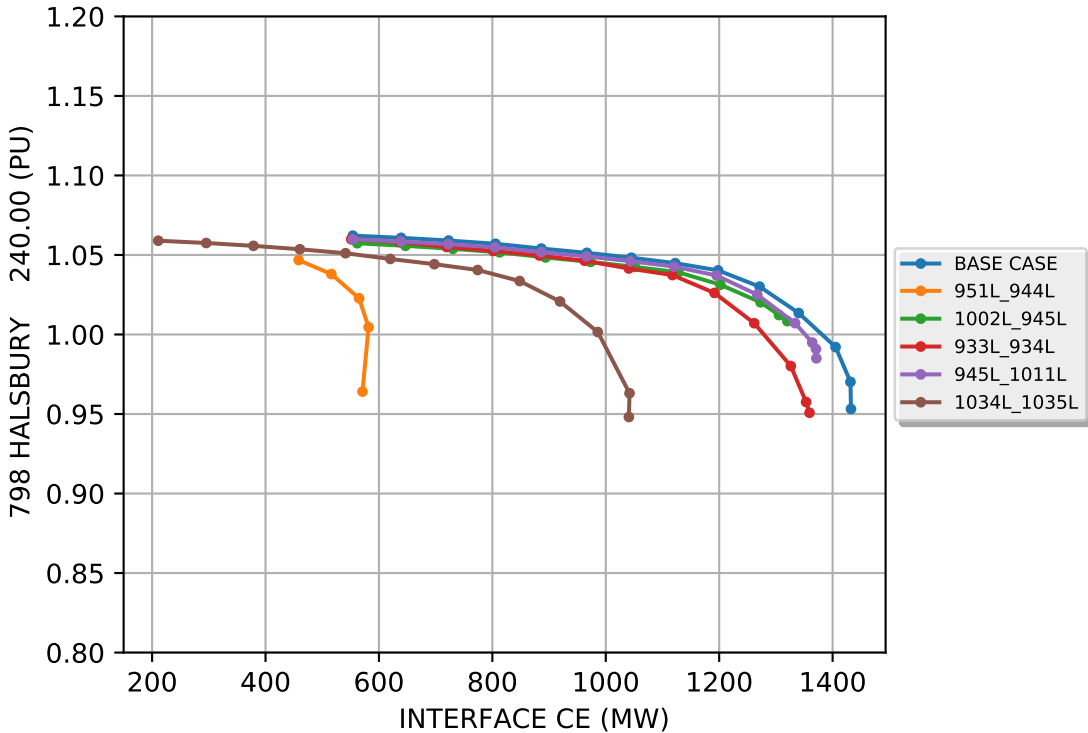


Figure: E-4-203

Case: M12, Option: PRE

Min Voltage: 0.96 PU, Min Margin: 26.9%

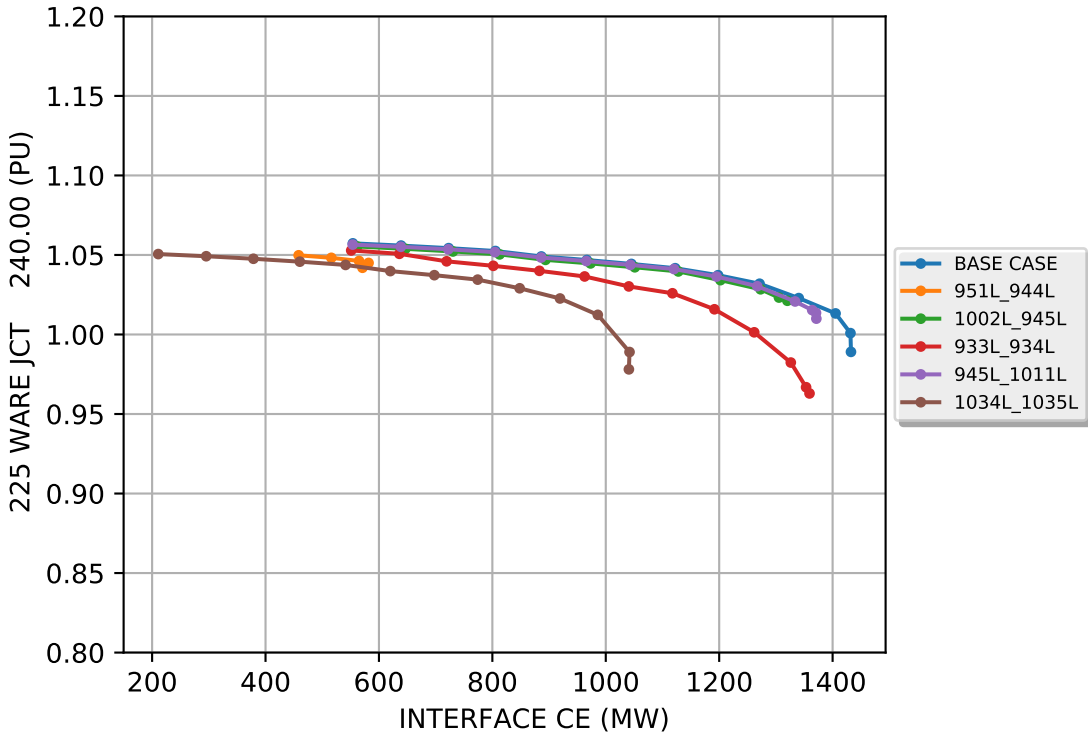


Figure: E-4-204

Case: M12, Option: PRE

Min Voltage: 0.98 PU, Min Margin: 26.9%

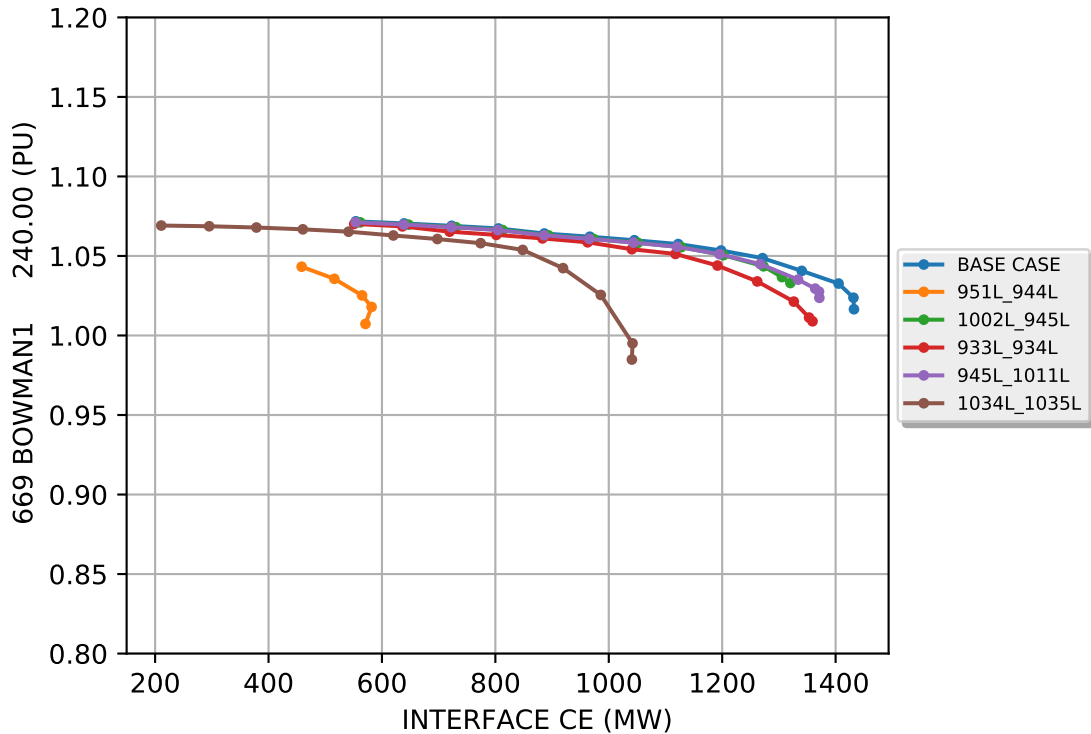
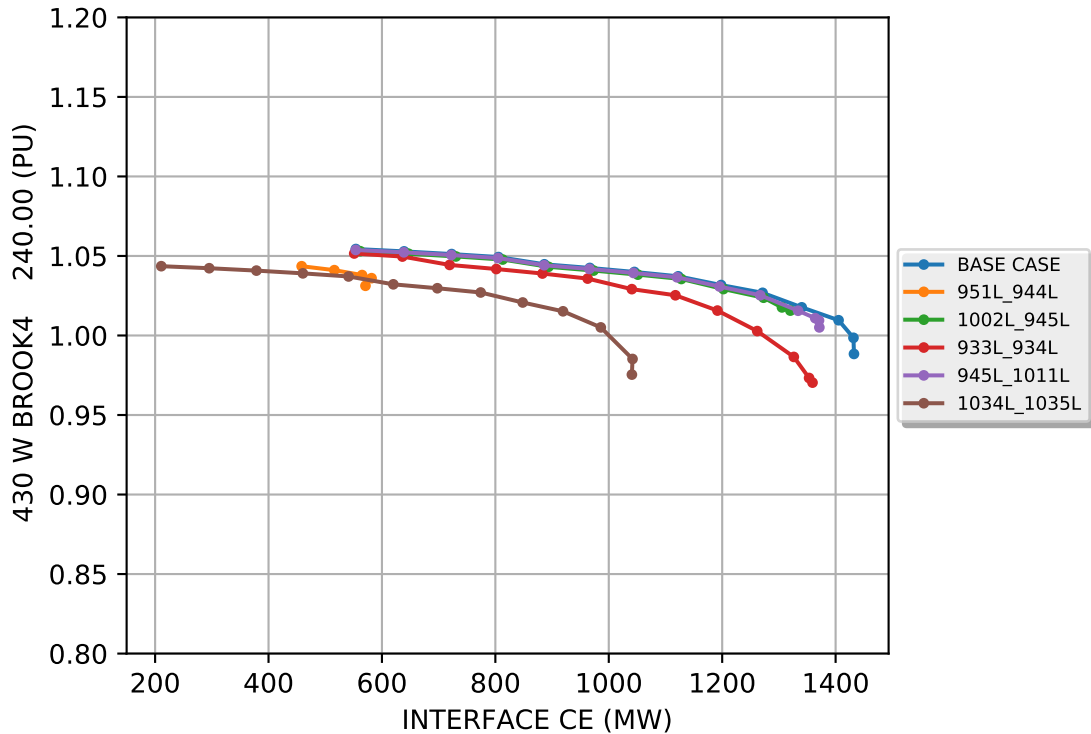


Figure: E-4-205

Case: M12, Option: PRE

Min Voltage: 0.97 PU, Min Margin: 26.9%



Worst Case Summaries:

Min Voltage: 0.87 PU, Page: 122

Min Margin: 13.3%, Page: 154

Min Margin Maximum 0.9 PU Voltage: 13.3%, Page: 154

Voltages above 1.1 PU in pages:

Attachment E-5 - PV Results

CE, Option: Post CRPC + CETO 1 Ckt, Cat. C

Figure: E-5-1

Case: H6, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 84.6%

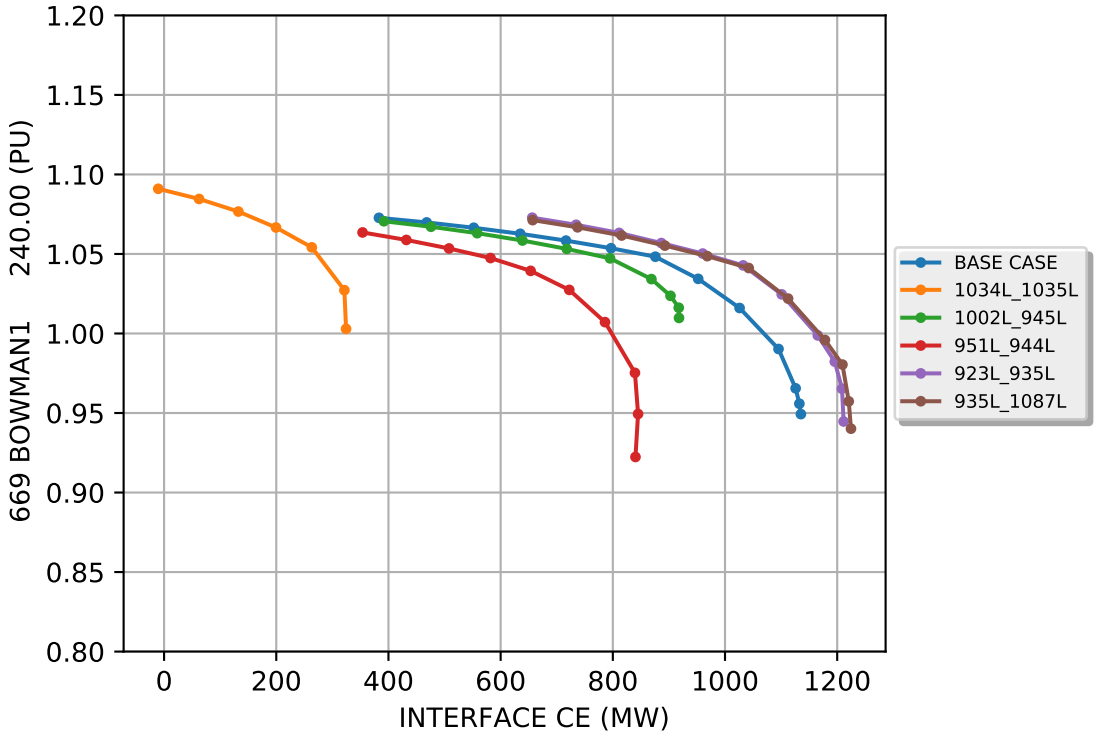


Figure: E-5-2

Case: H6, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 84.6%

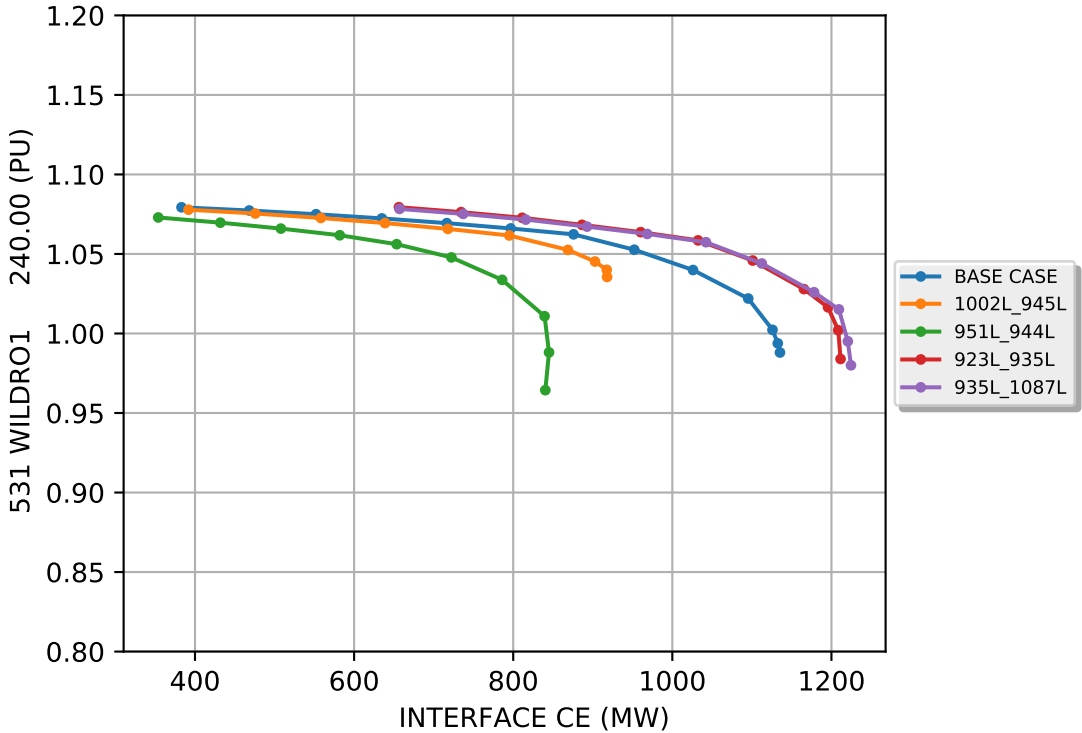


Figure: E-5-3

Case: H6, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 84.6%

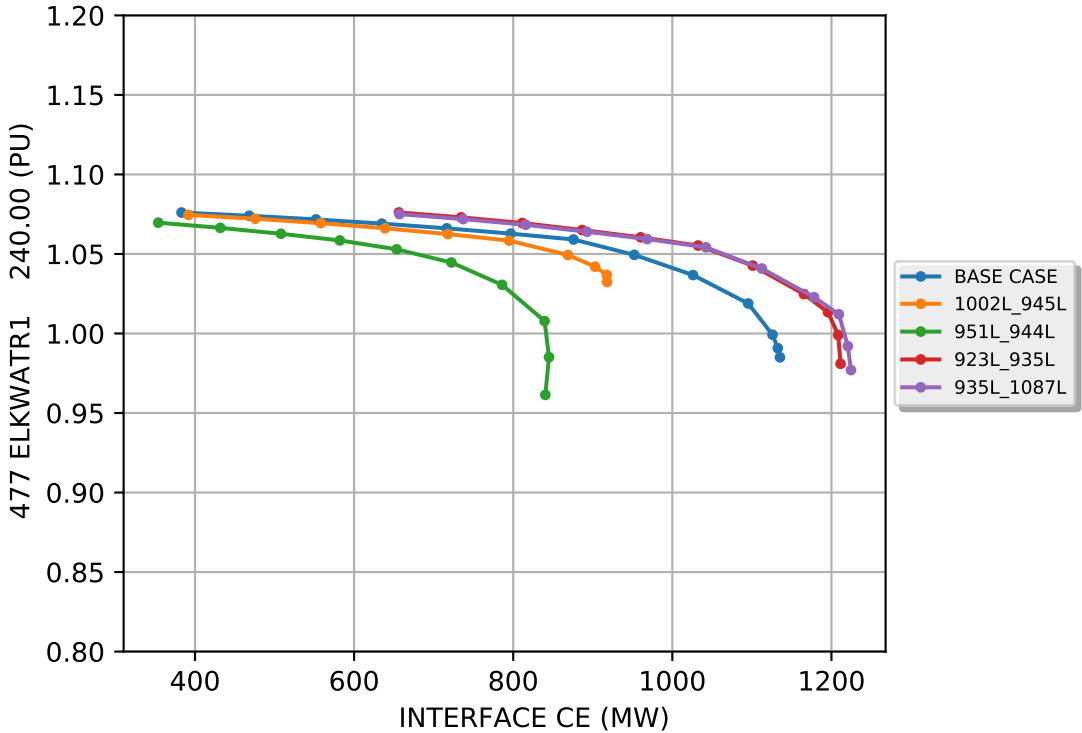


Figure: E-5-4

Case: H6, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 84.6%

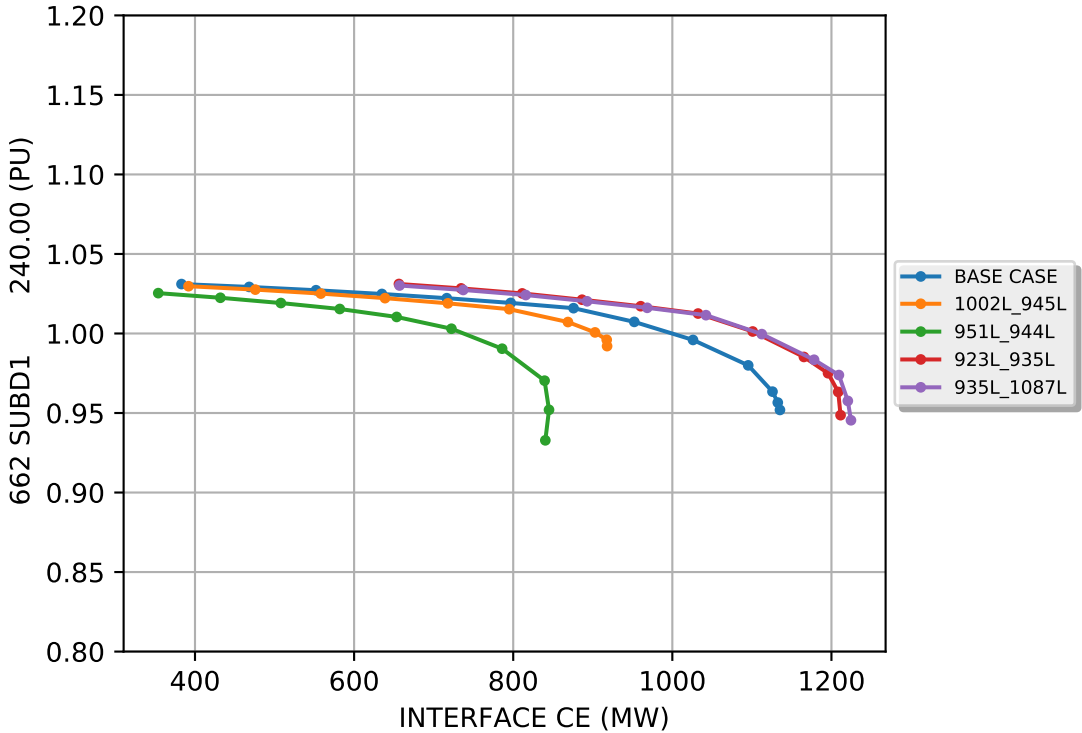


Figure: E-5-5

Case: H6, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 84.6%

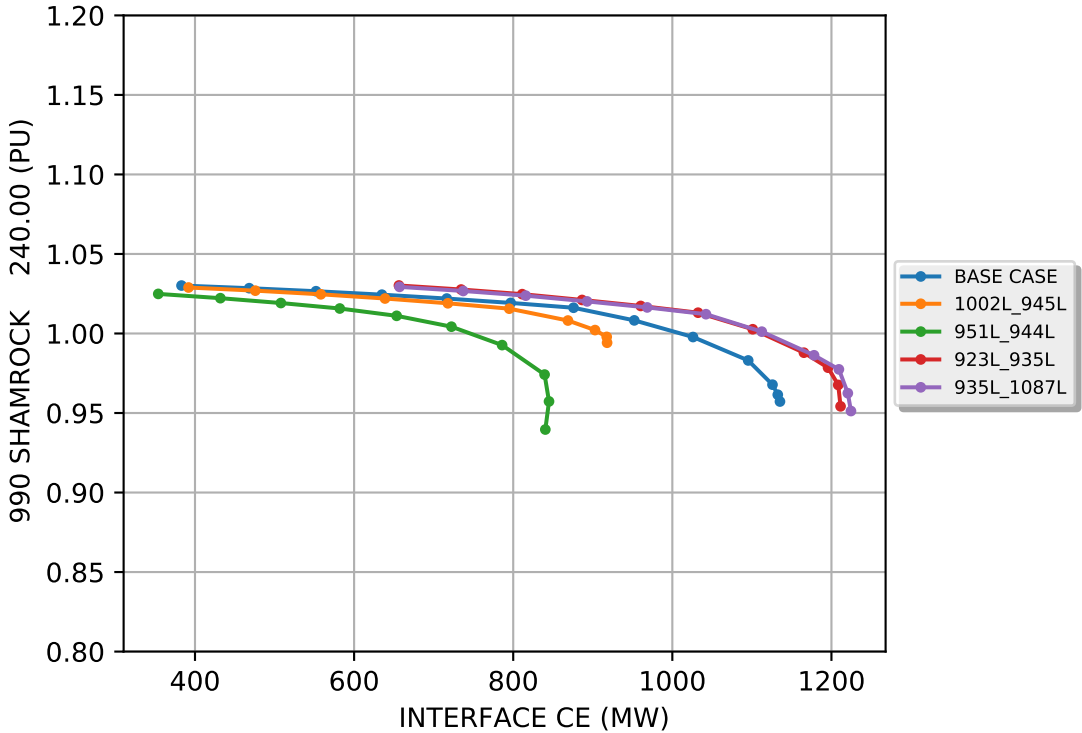


Figure: E-5-6

Case: H6, Option: BOTH

Min Voltage: 0.89 PU, Min Margin: 84.6%

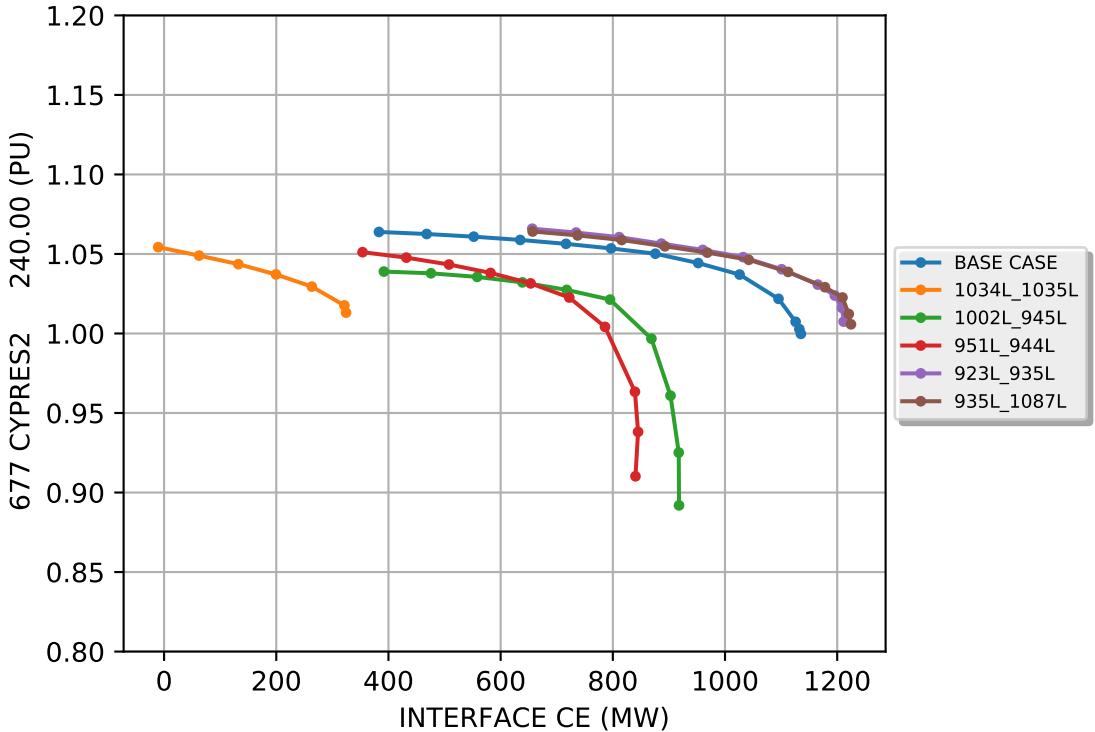


Figure: E-5-7

Case: H6, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 84.6%

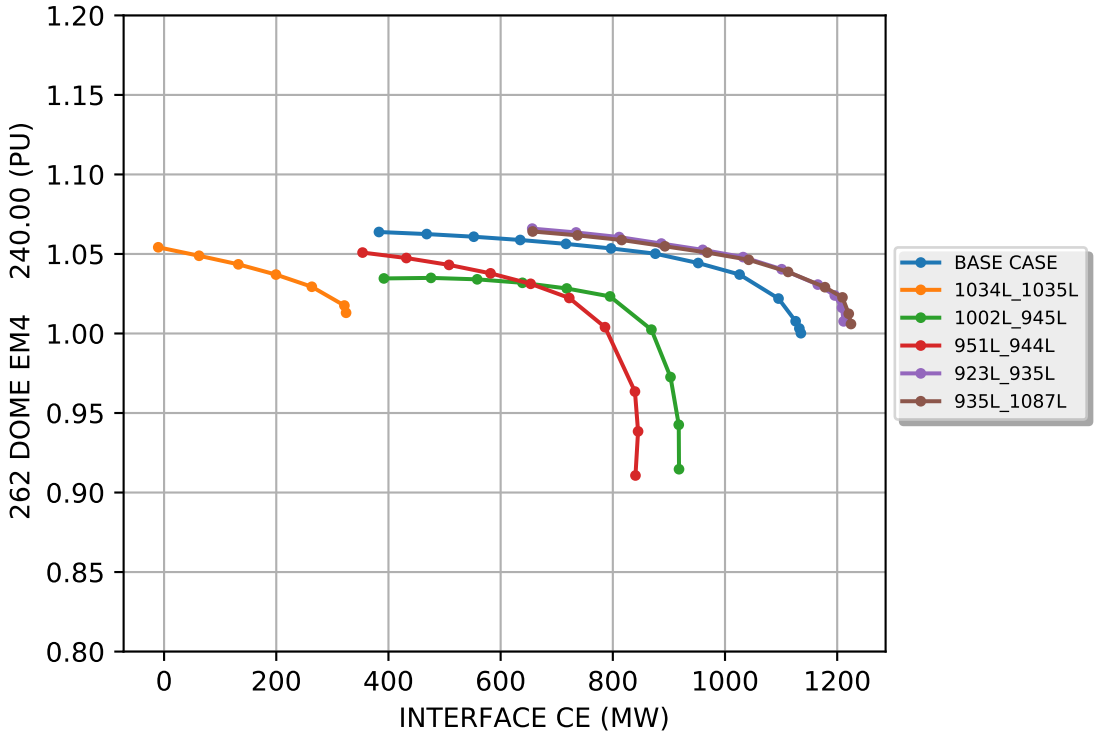


Figure: E-5-8

Case: H6, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 84.6%

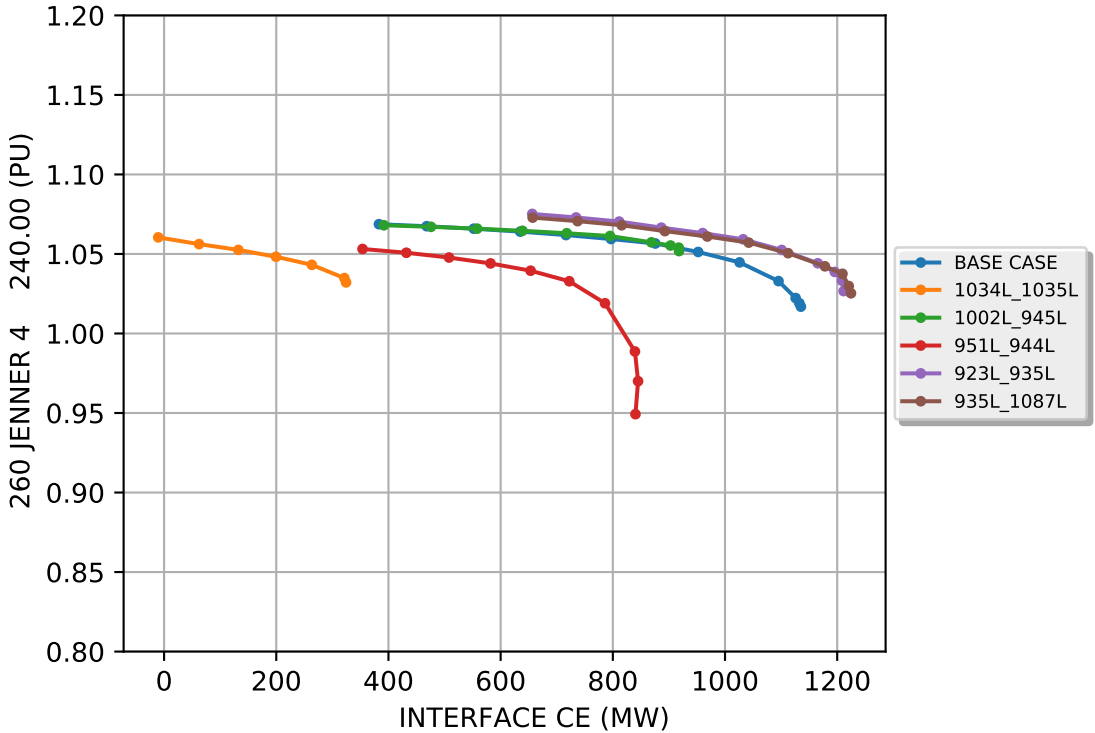


Figure: E-5-9

Case: H6, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 84.6%

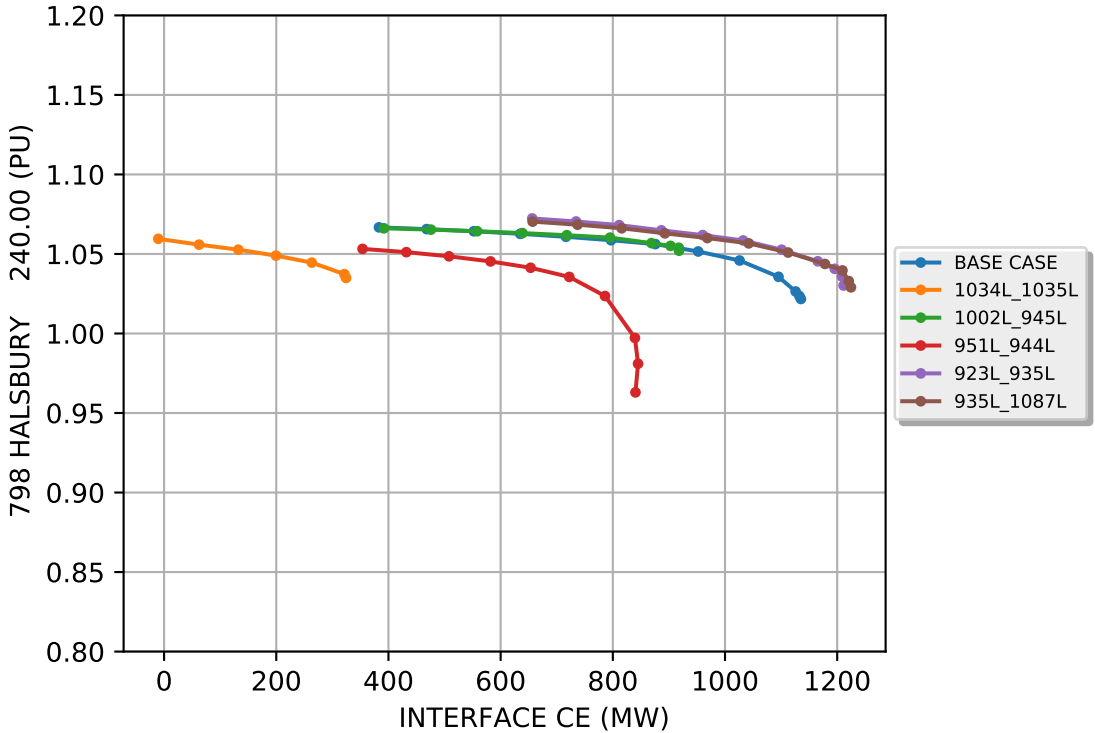


Figure: E-5-11

Case: H5, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 40.2%

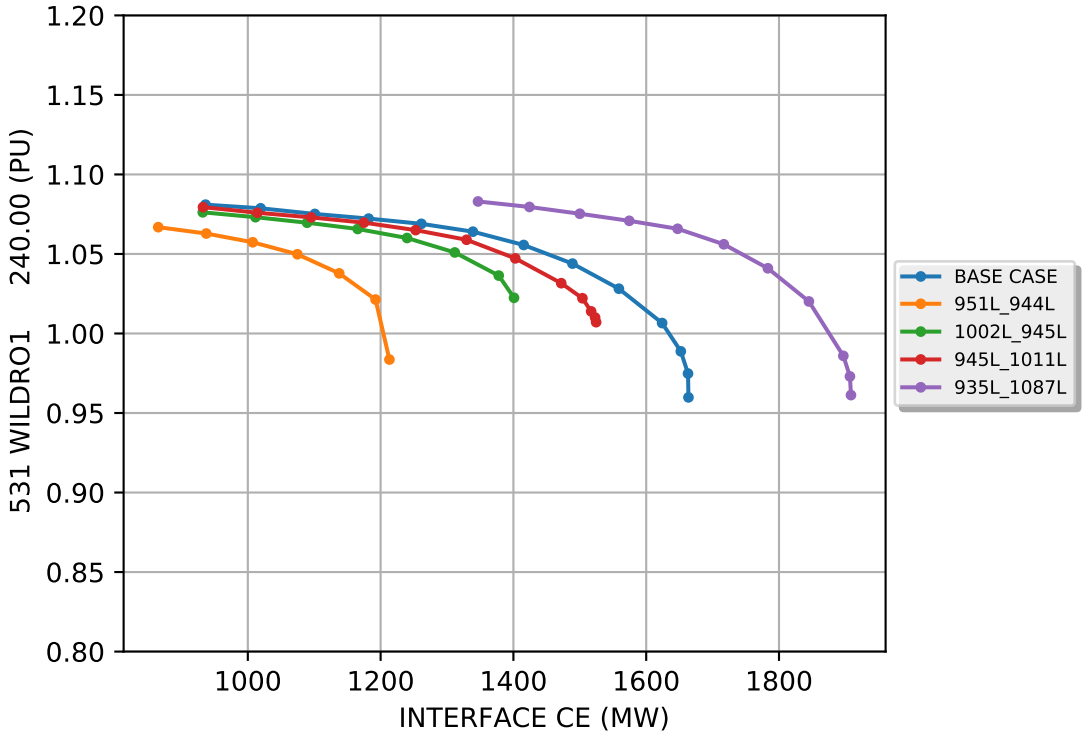


Figure: E-5-12

Case: H5, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 40.2%

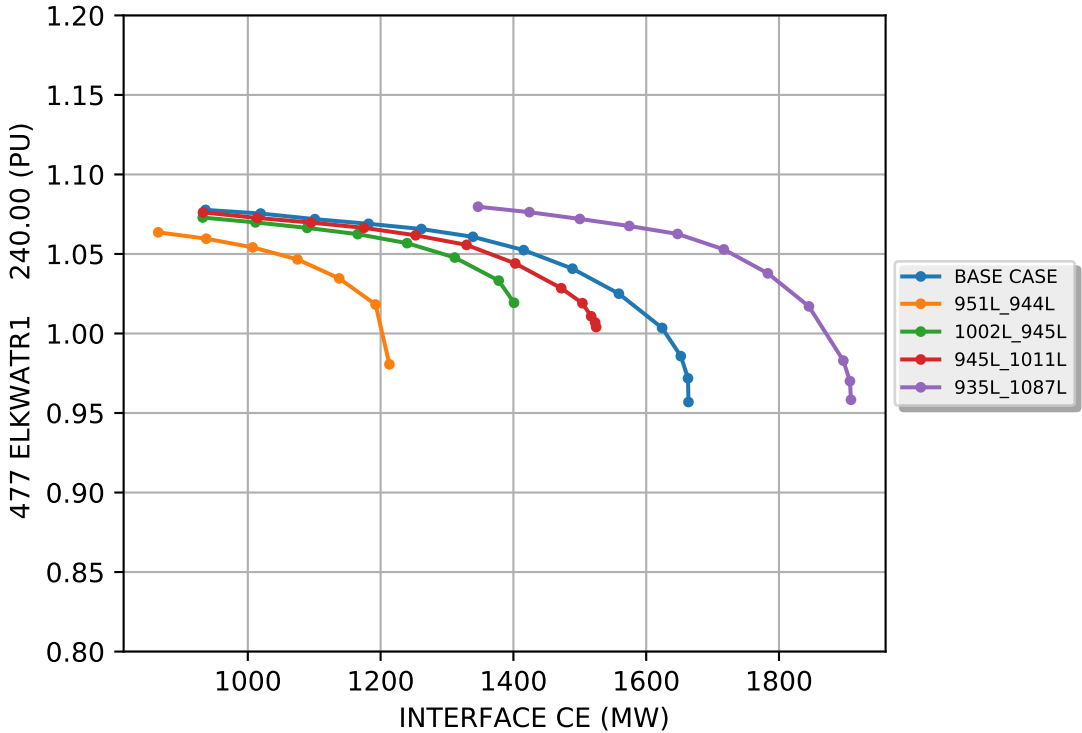


Figure: E-5-13

Case: H5, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 40.2%

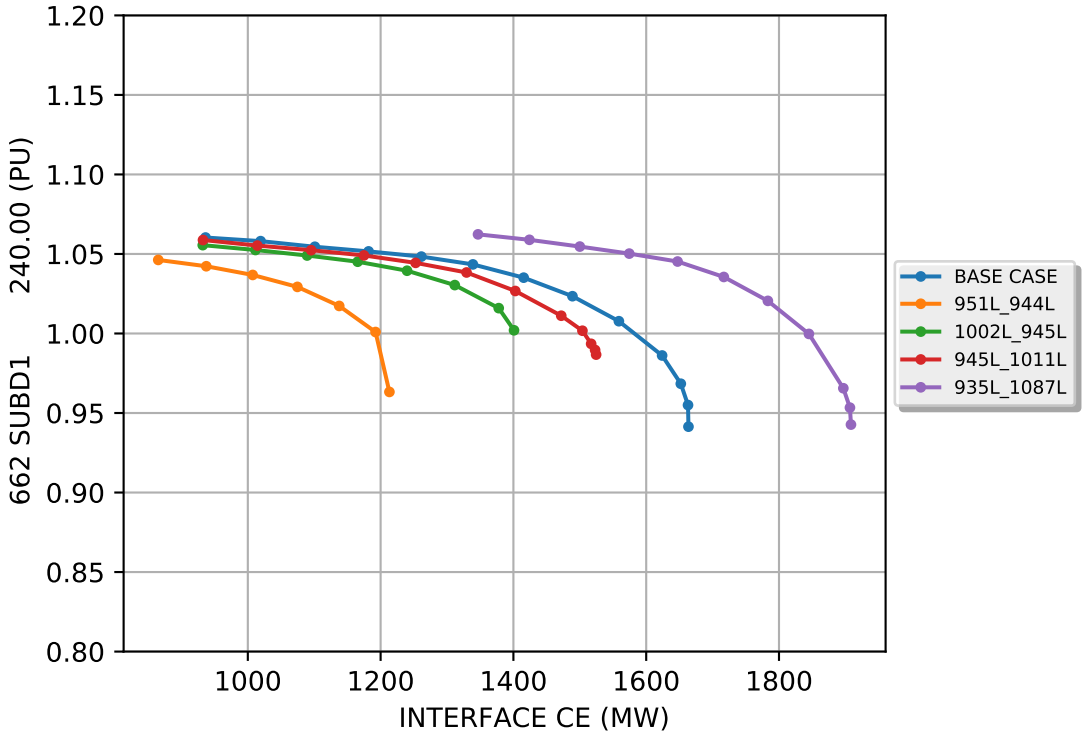


Figure: E-5-14

Case: H5, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 40.2%

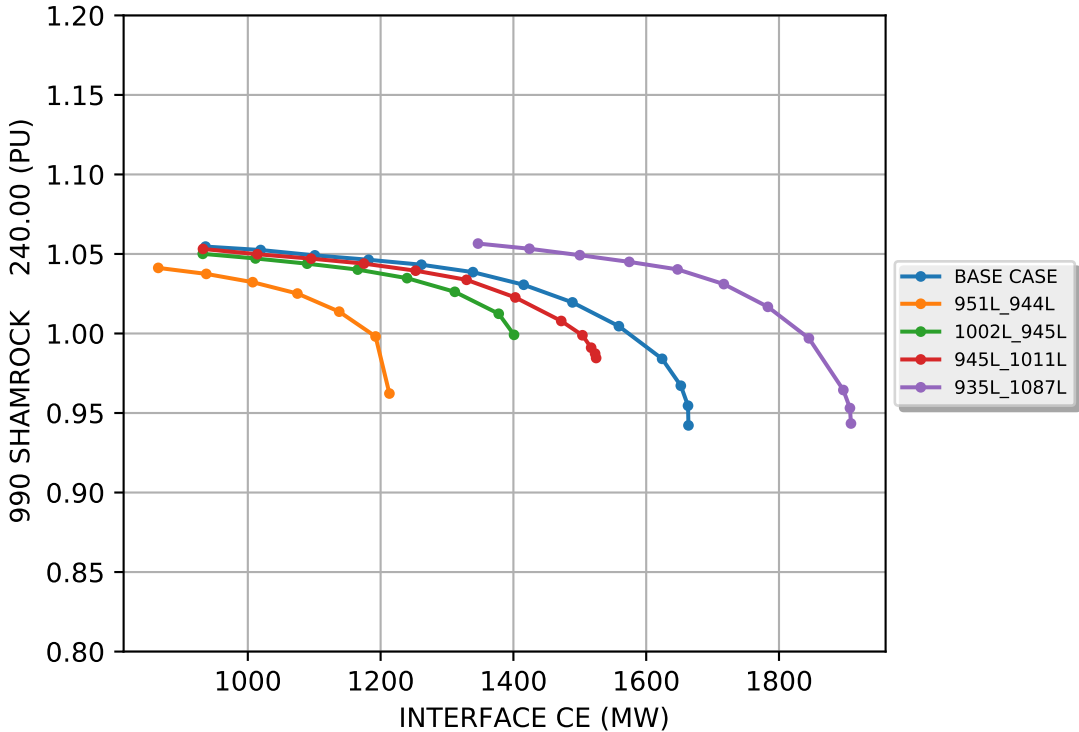


Figure: E-5-15

Case: H5, Option: BOTH

Min Voltage: 0.87 PU, Min Margin: 40.2%

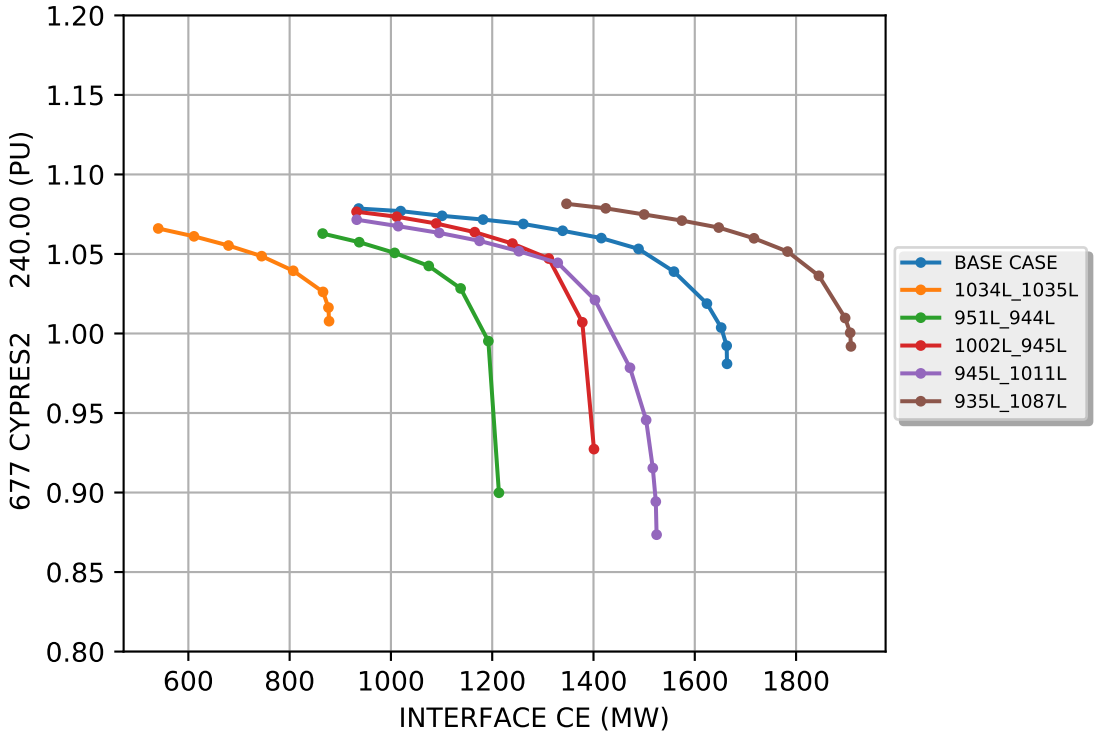


Figure: E-5-16

Case: H5, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 40.2%

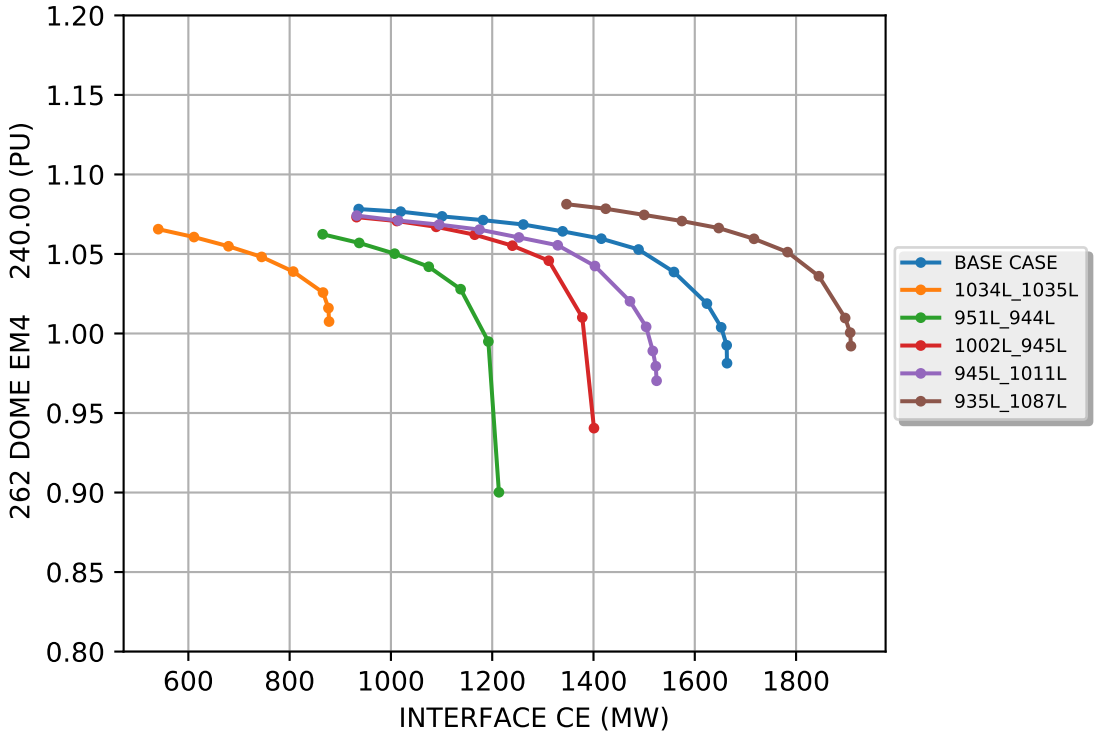


Figure: E-5-17

Case: H5, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 40.2%

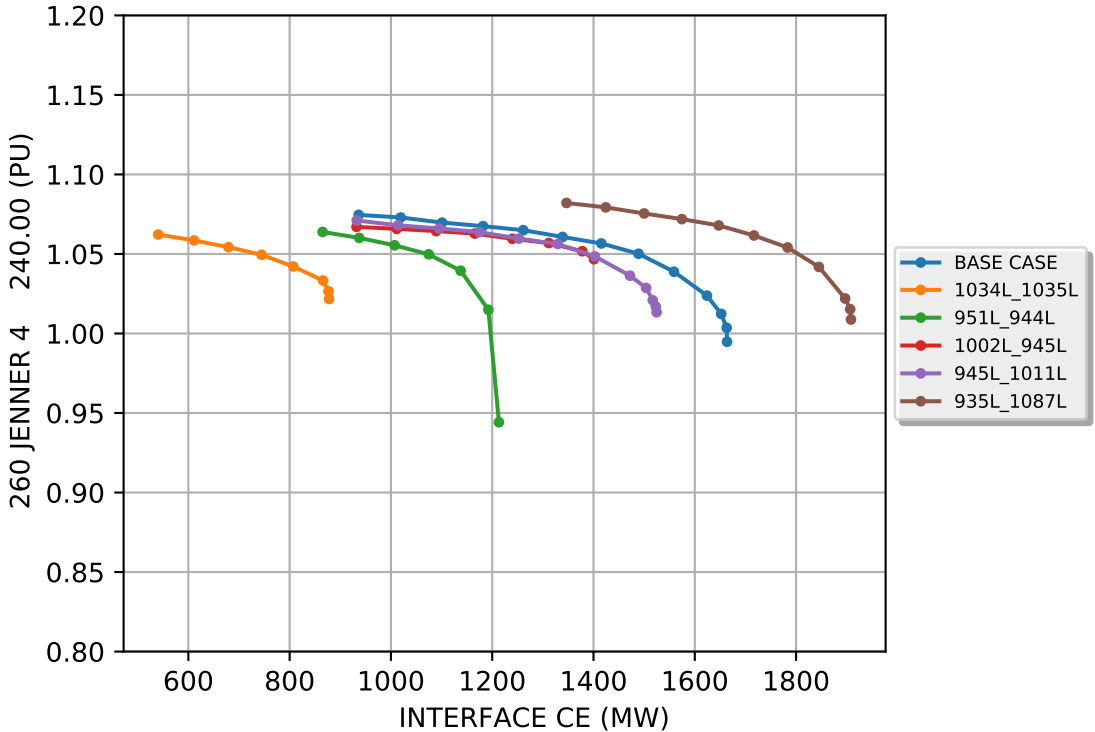


Figure: E-5-18

Case: H5, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 40.2%

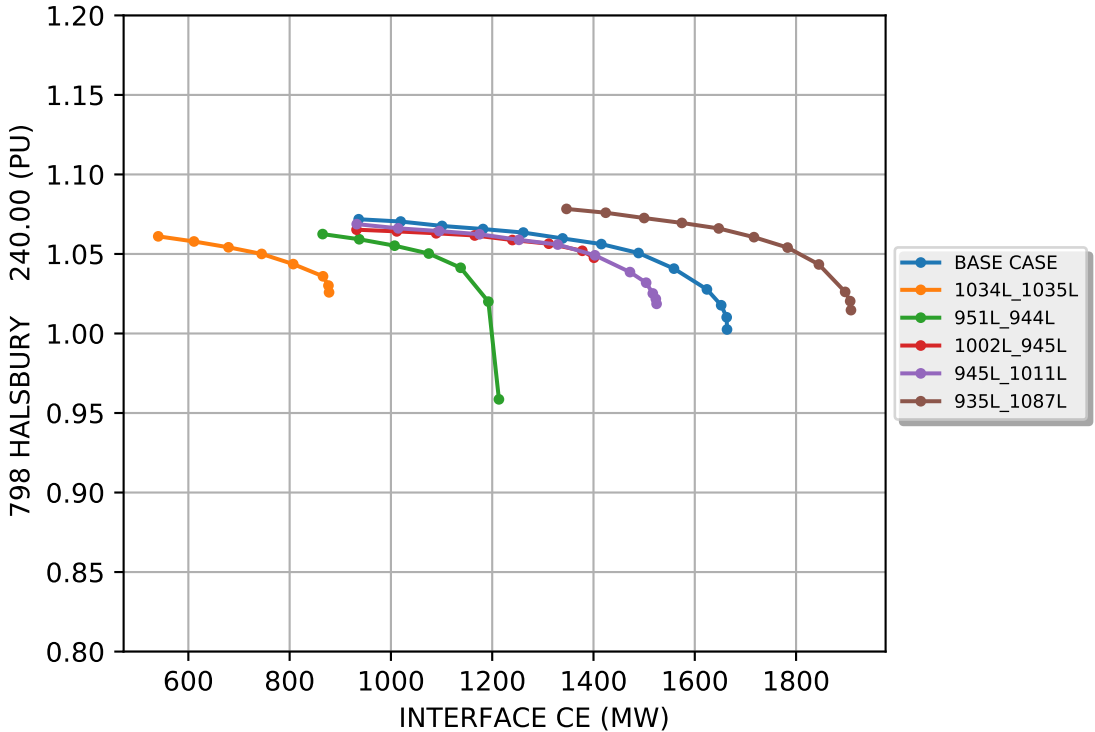


Figure: E-5-19

Case: H7, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 40.8%

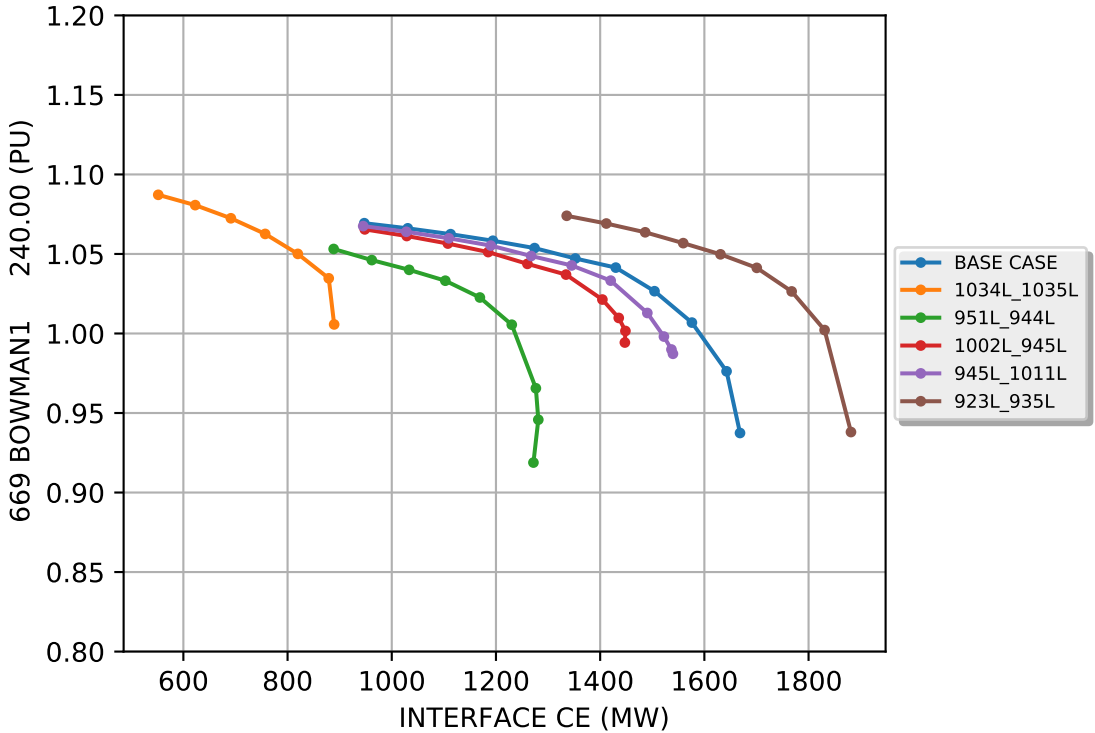


Figure: E-5-20

Case: H7, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 40.8%

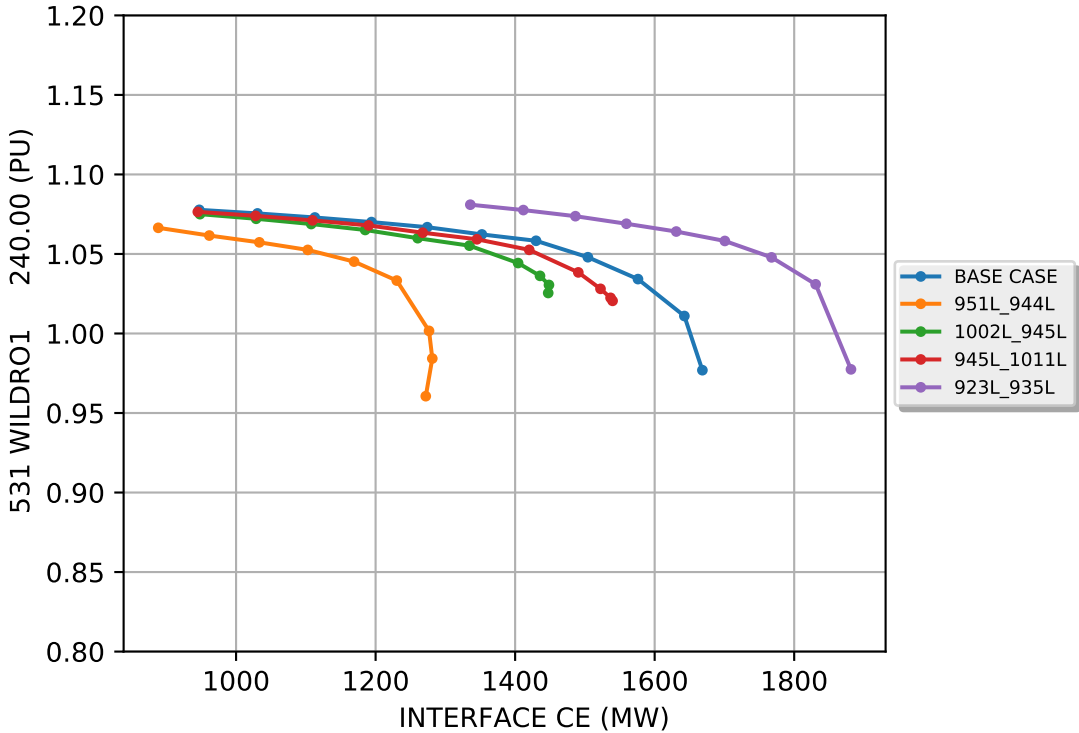


Figure: E-5-21

Case: H7, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 40.8%

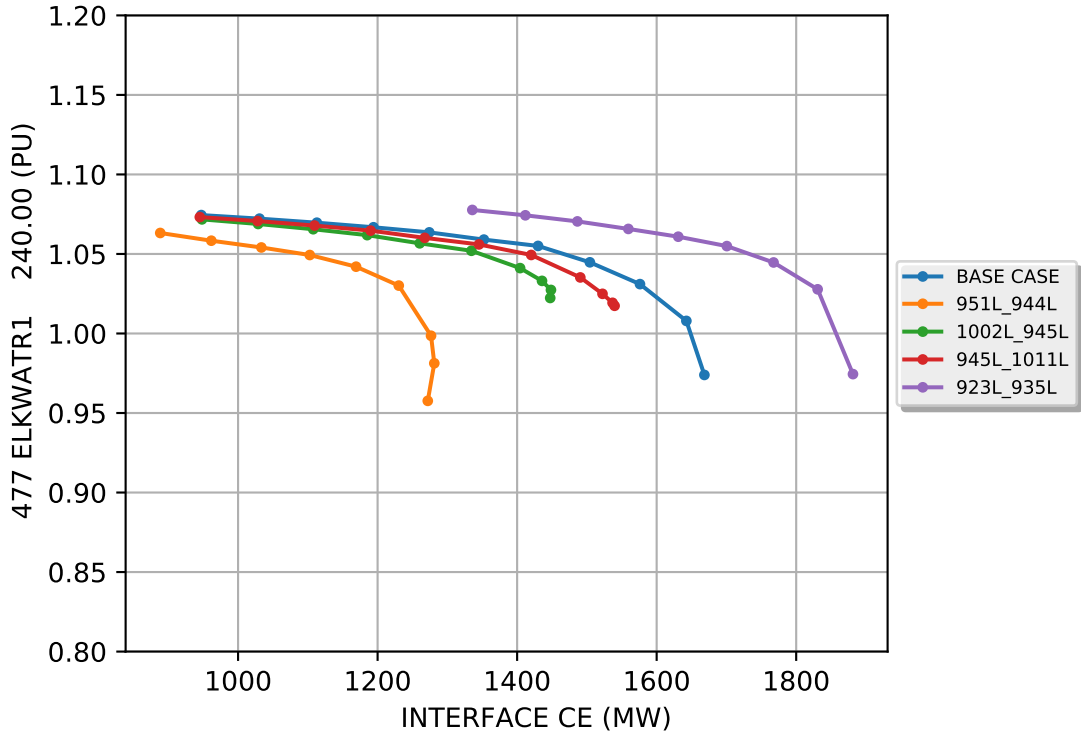


Figure: E-5-22

Case: H7, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 40.8%

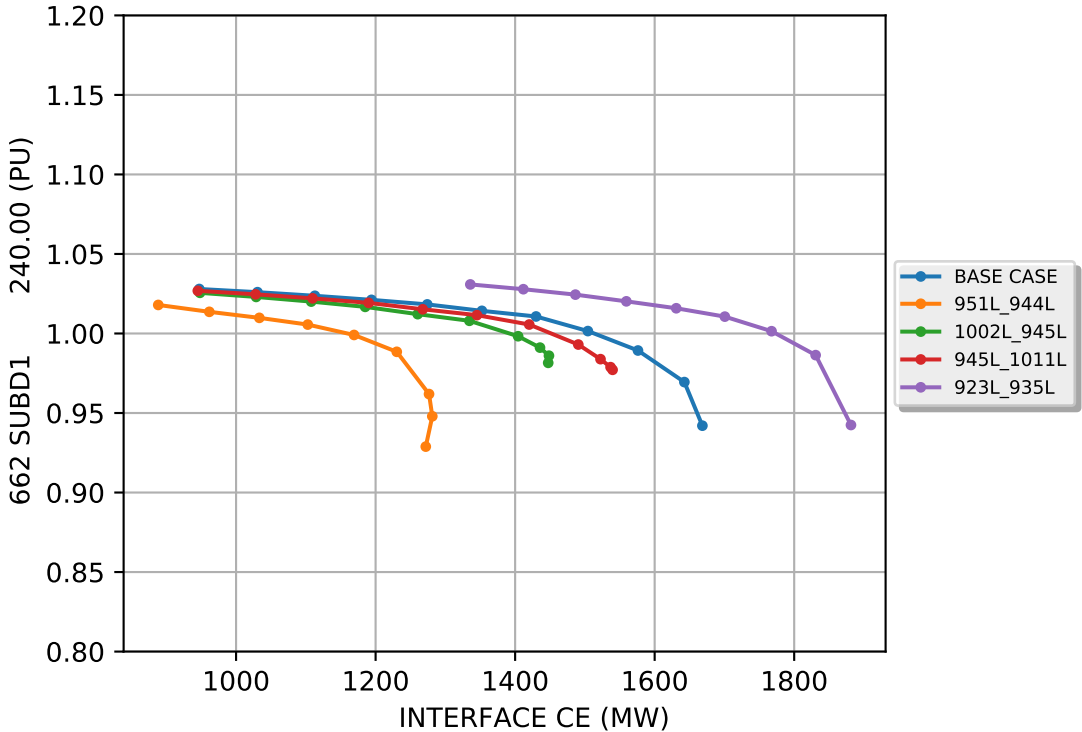


Figure: E-5-23

Case: H7, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 40.8%

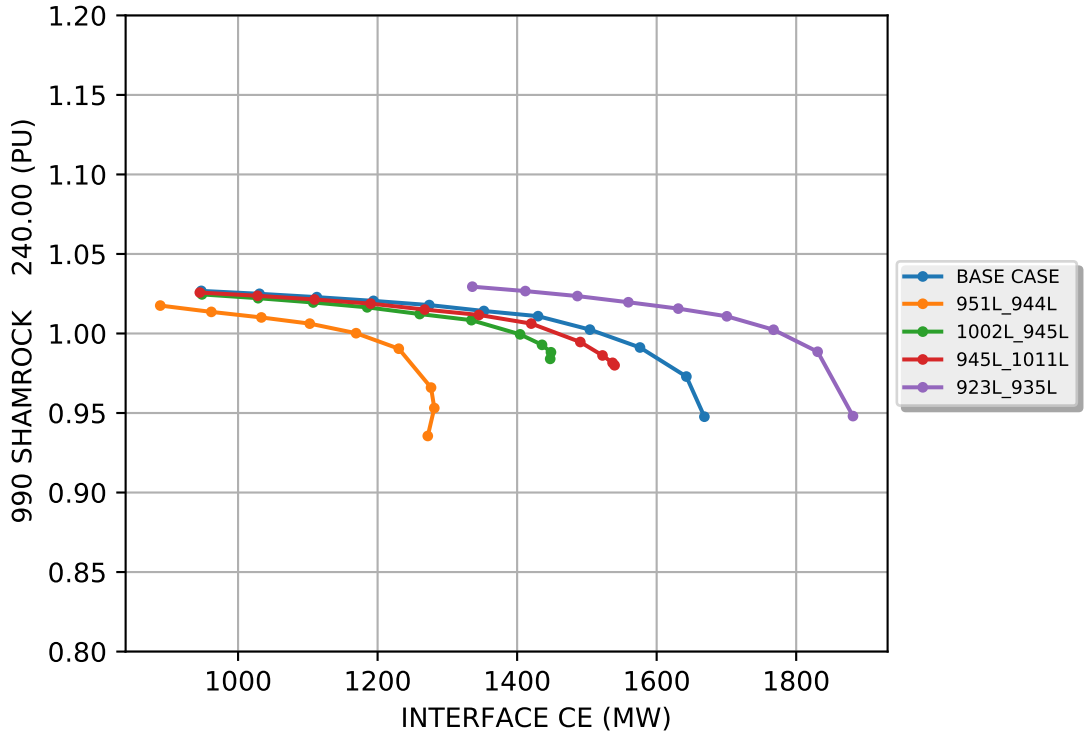


Figure: E-5-24

Case: H7, Option: BOTH

Min Voltage: 0.88 PU, Min Margin: 40.8%

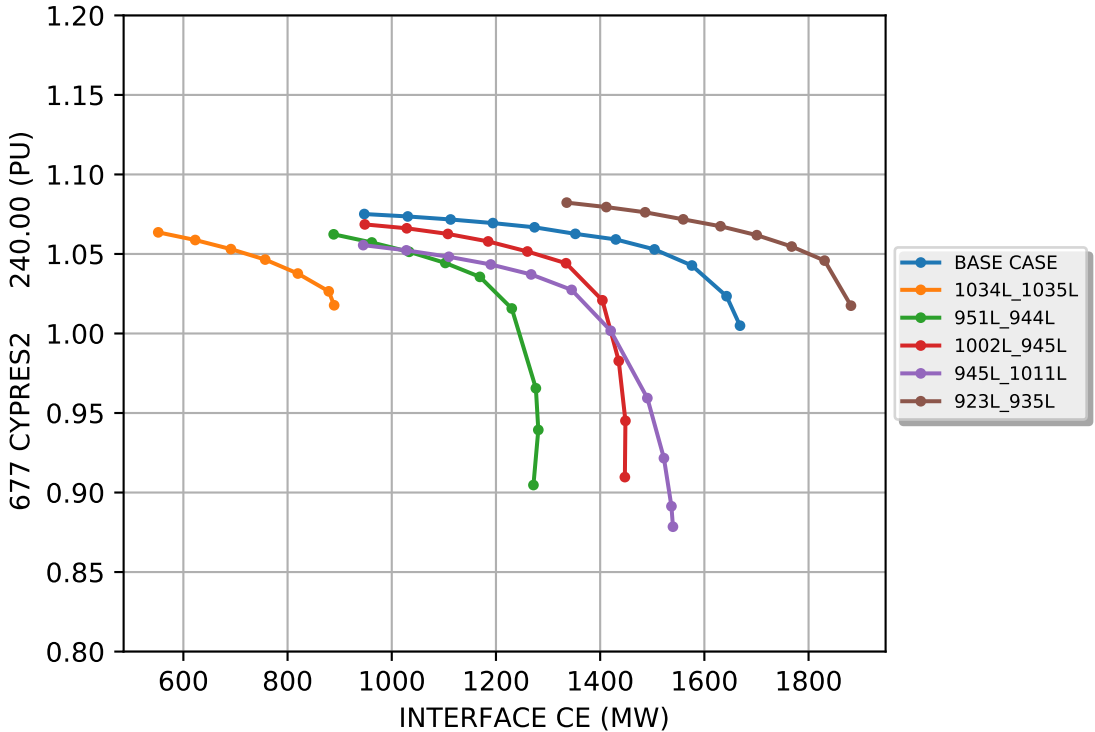


Figure: E-5-25

Case: H7, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 40.8%

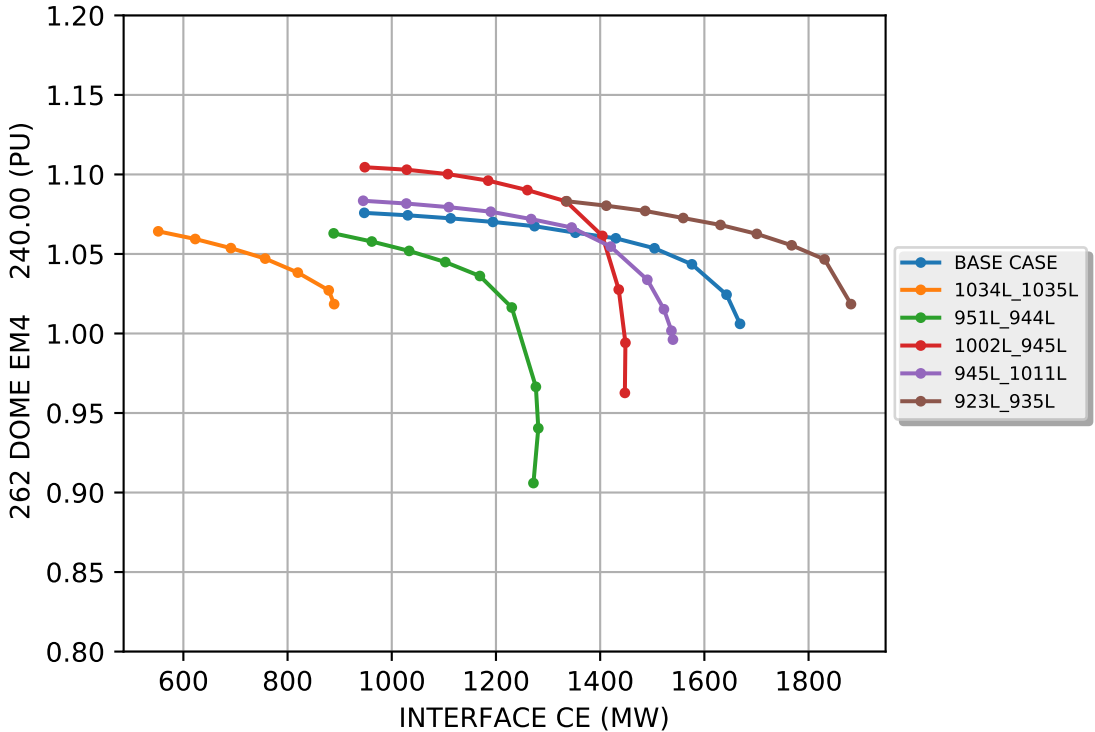


Figure: E-5-26

Case: H7, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 40.8%

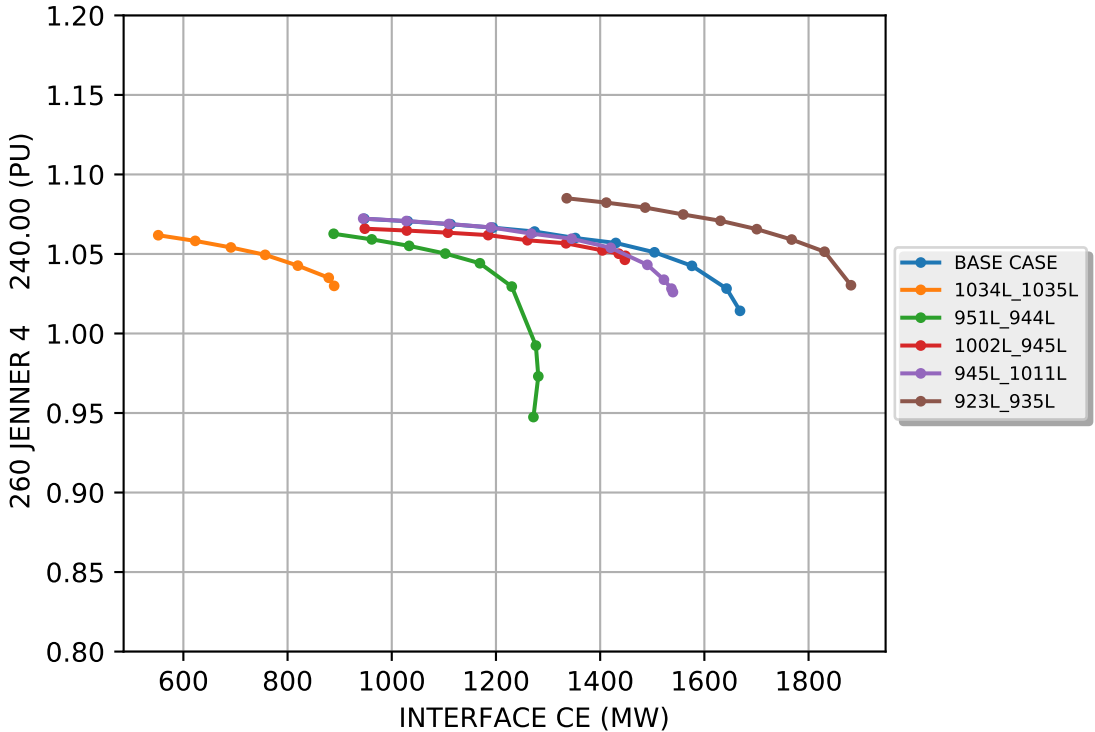


Figure: E-5-27

Case: H7, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 40.8%

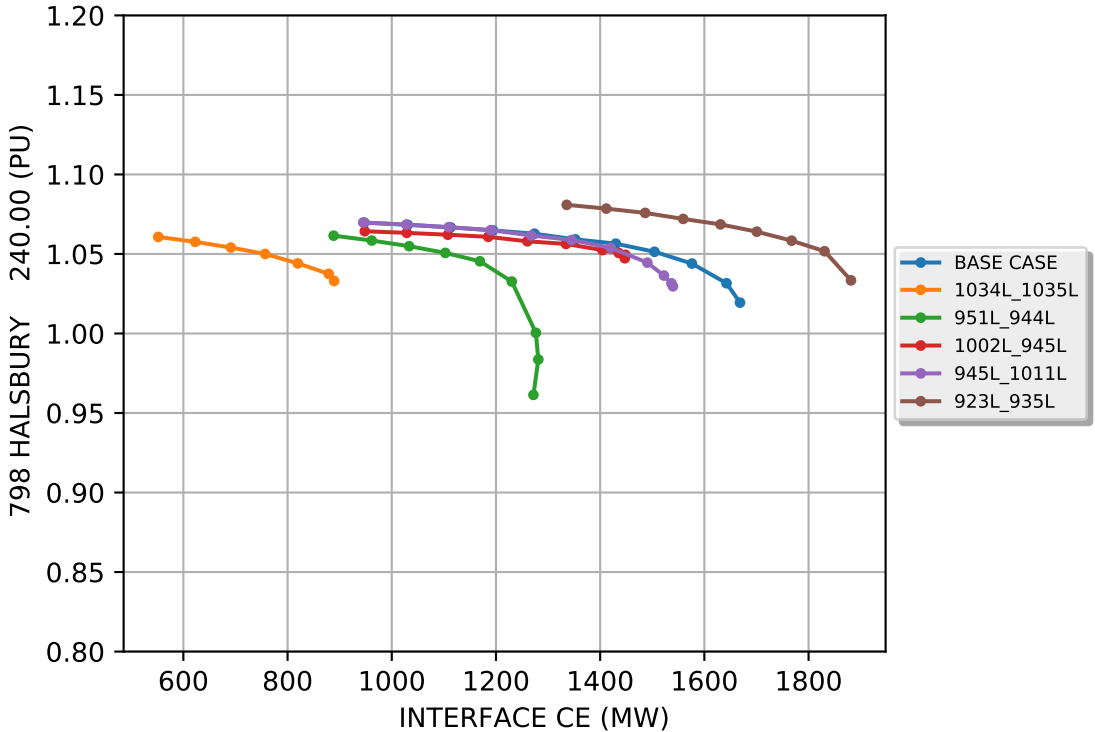


Figure: E-5-28

Case: H4, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 52.8%

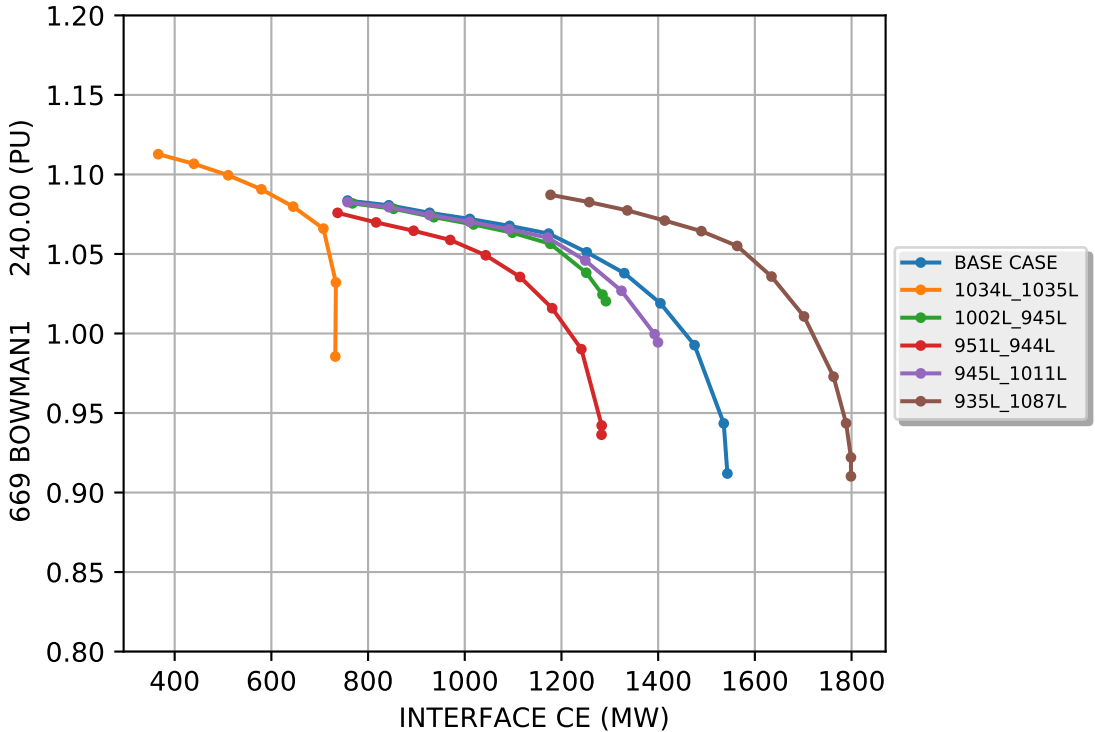


Figure: E-5-29

Case: H4, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 52.8%

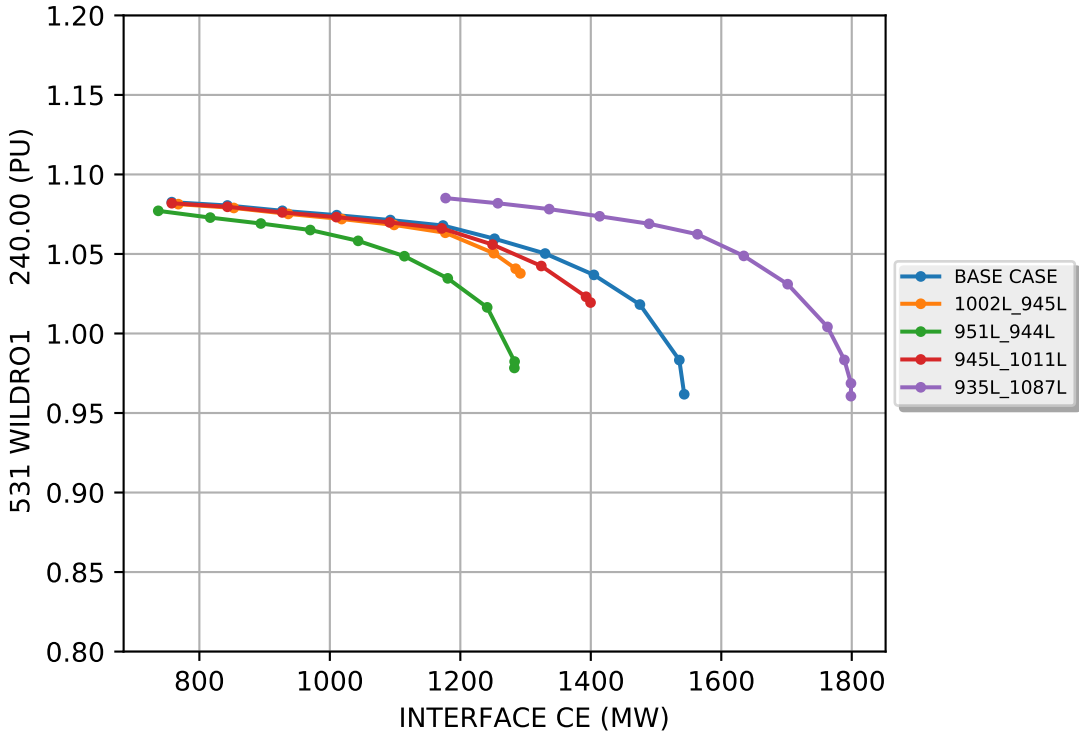


Figure: E-5-30

Case: H4, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 52.8%

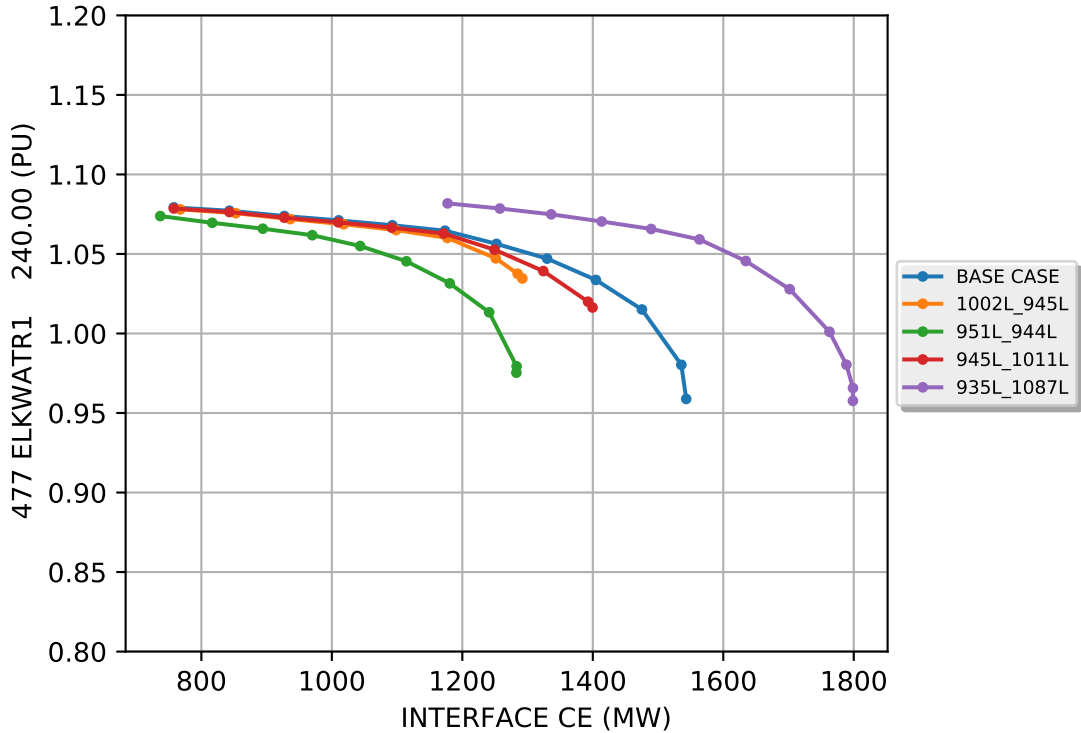


Figure: E-5-31

Case: H4, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 52.8%

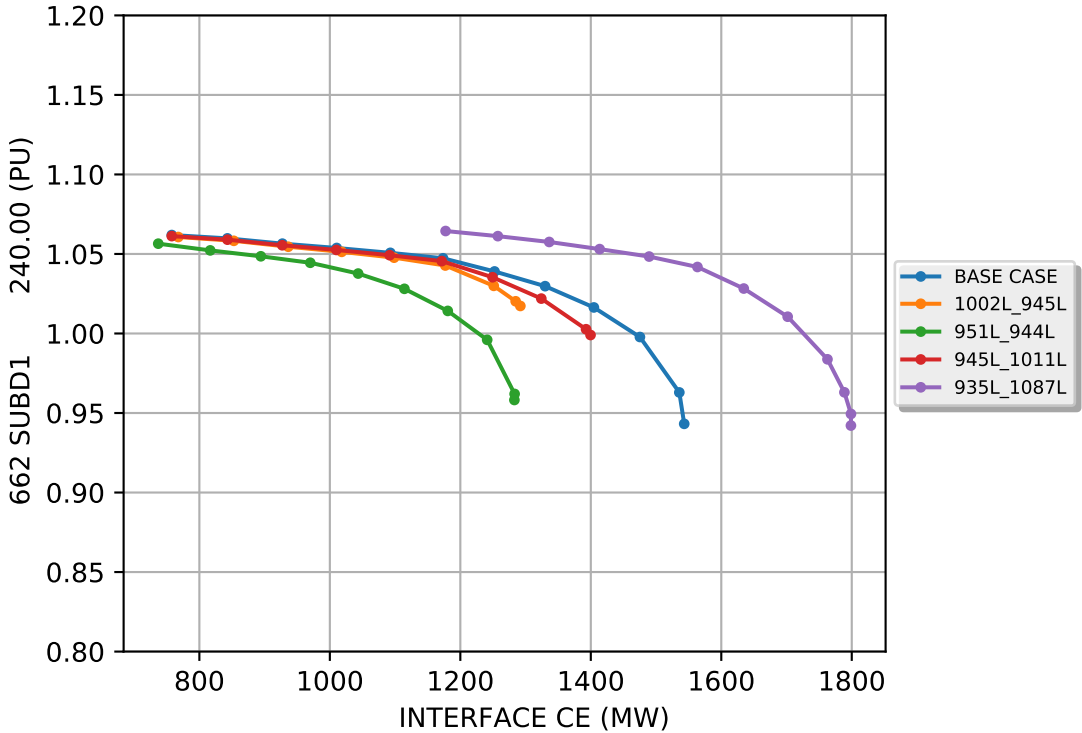


Figure: E-5-32

Case: H4, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 52.8%

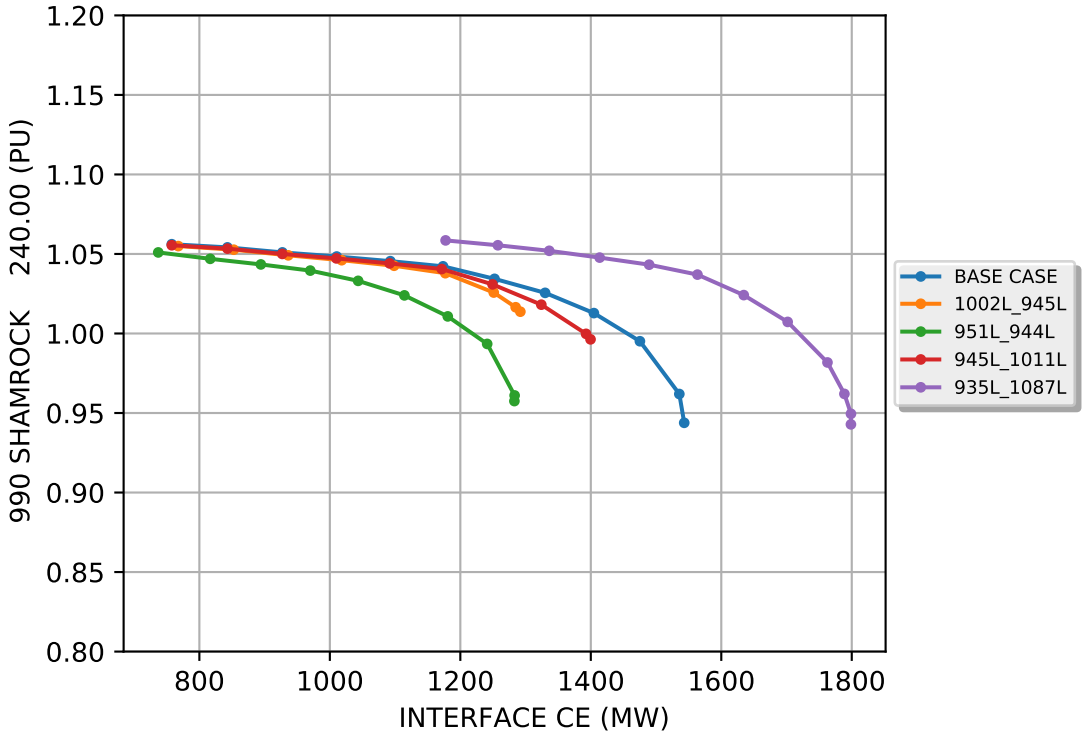


Figure: E-5-33

Case: H4, Option: BOTH

Min Voltage: 0.88 PU, Min Margin: 52.8%

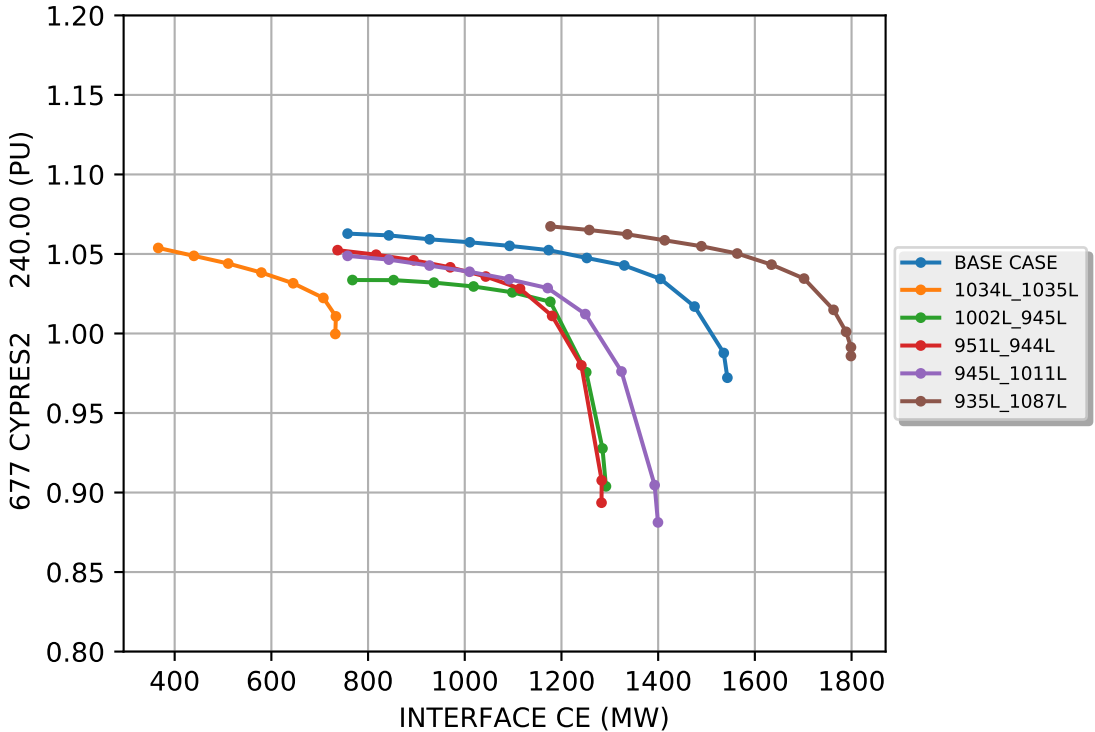


Figure: E-5-34

Case: H4, Option: BOTH

Min Voltage: 0.89 PU, Min Margin: 52.8%

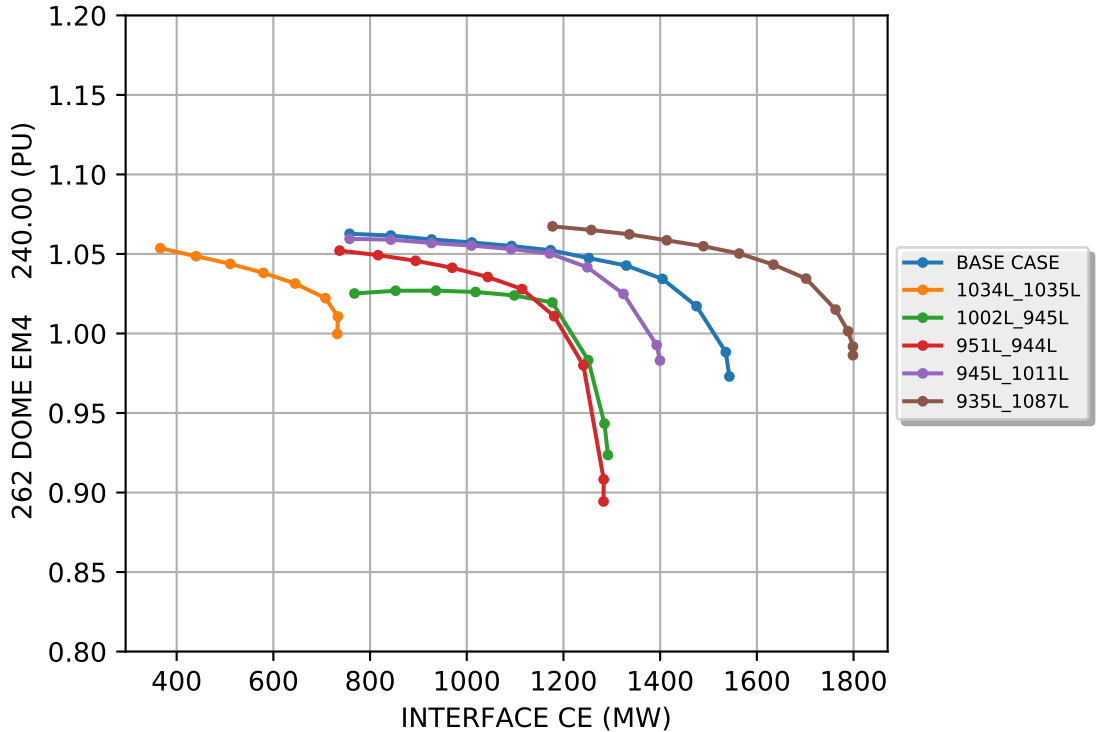


Figure: E-5-35

Case: H4, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 52.8%

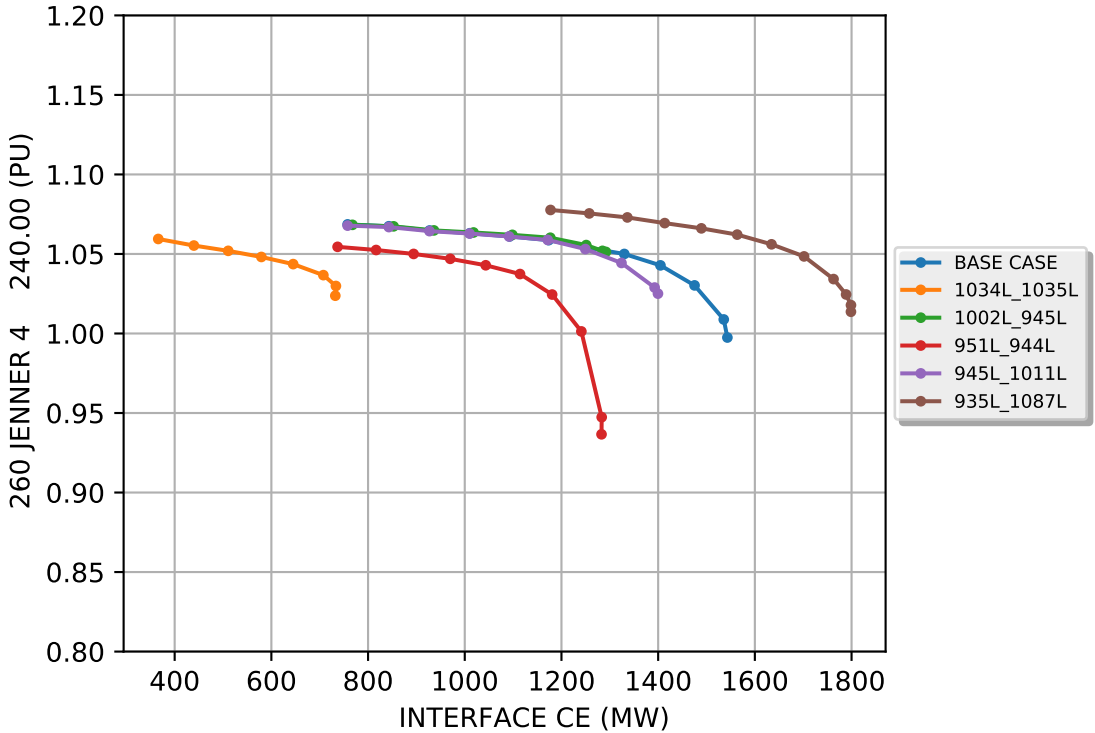


Figure: E-5-36

Case: H4, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 52.8%

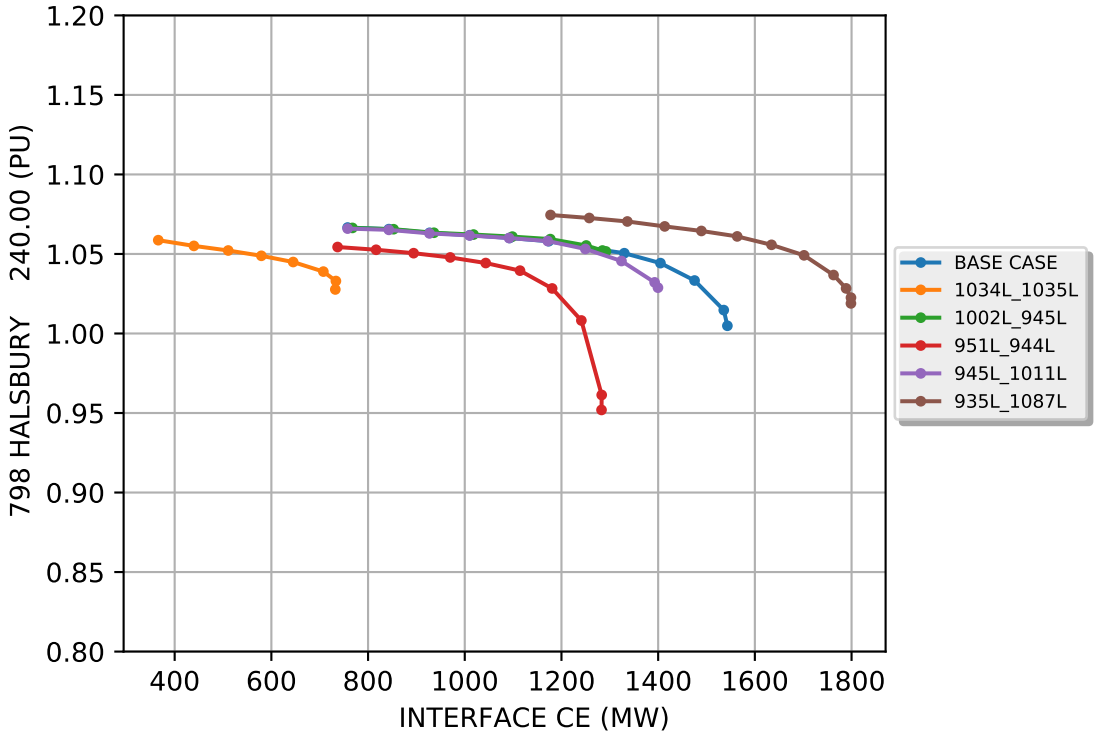


Figure: E-5-37

Case: M12, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 95.3%

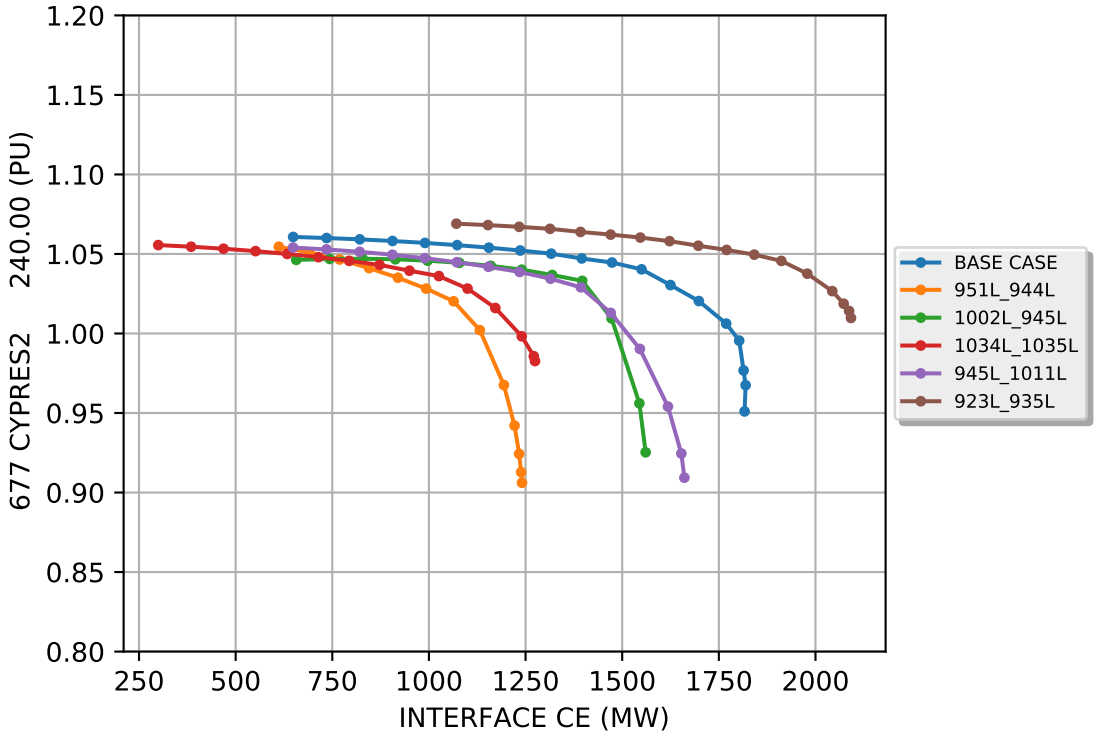


Figure: E-5-38

Case: M12, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 95.3%

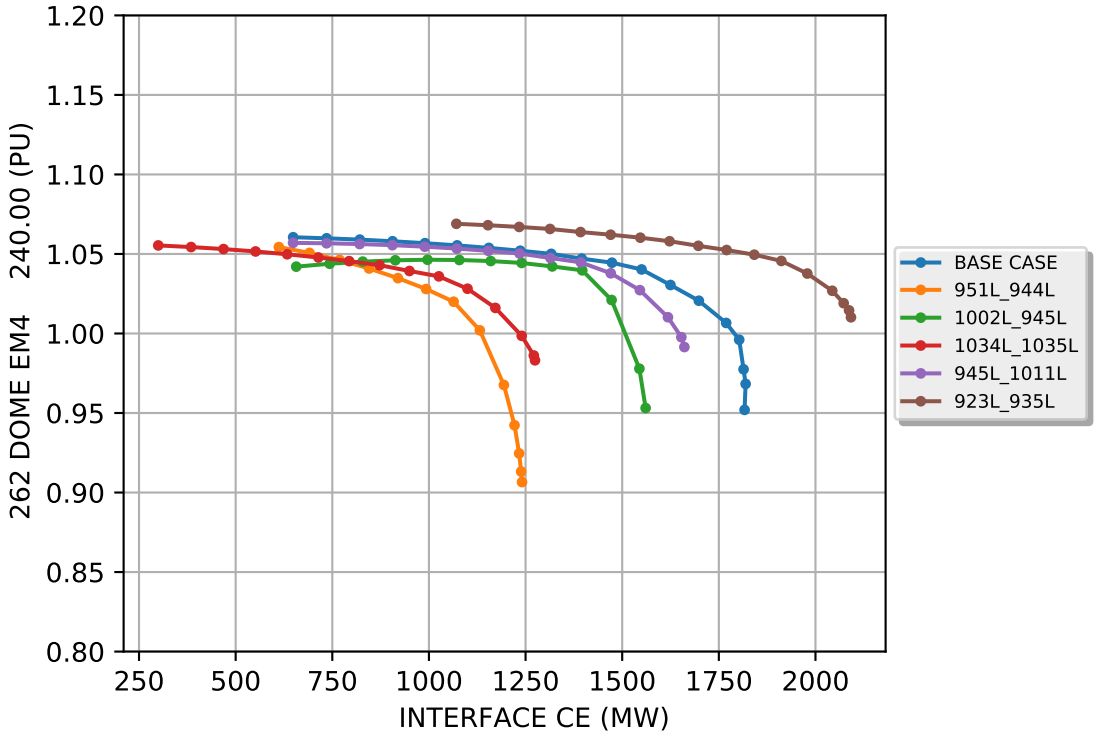


Figure: E-5-39

Case: M12, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 95.3%

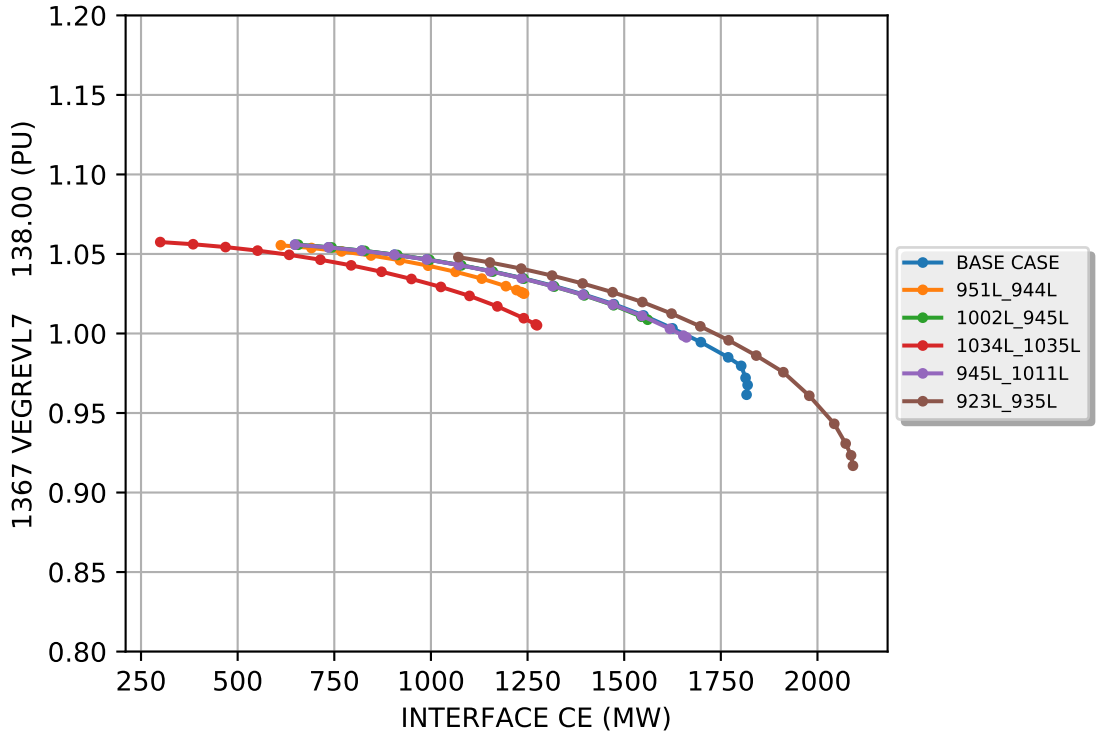


Figure: E-5-40

Case: M12, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 95.3%

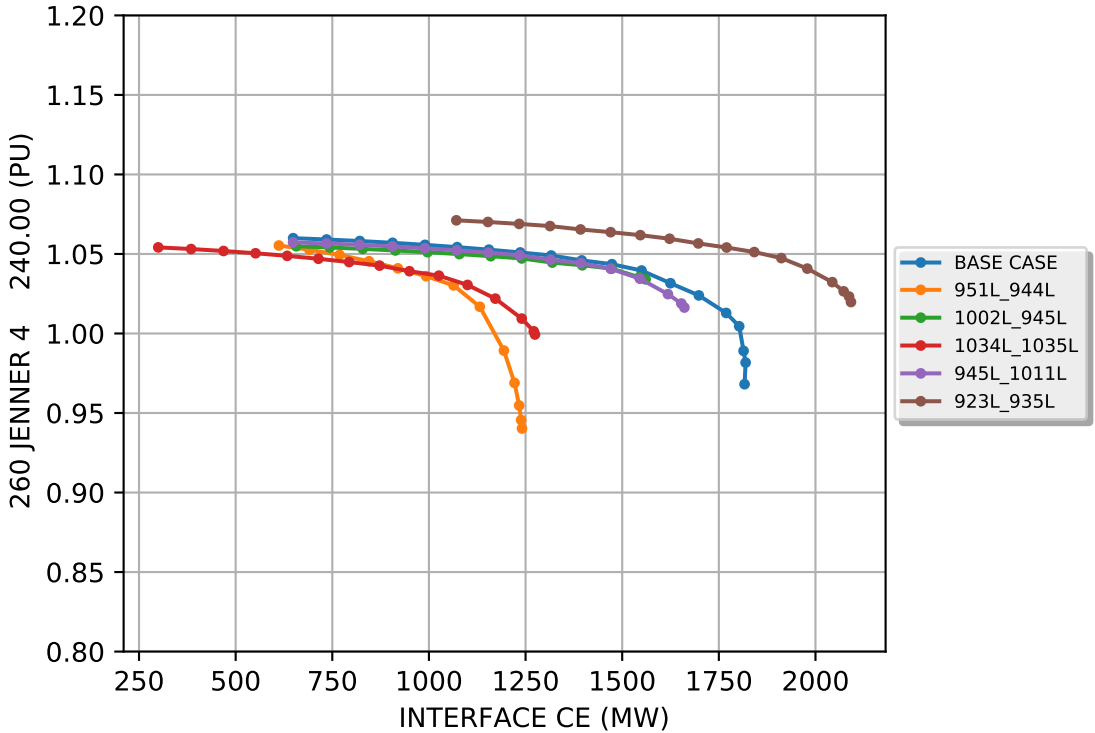


Figure: E-5-41

Case: M12, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 95.3%

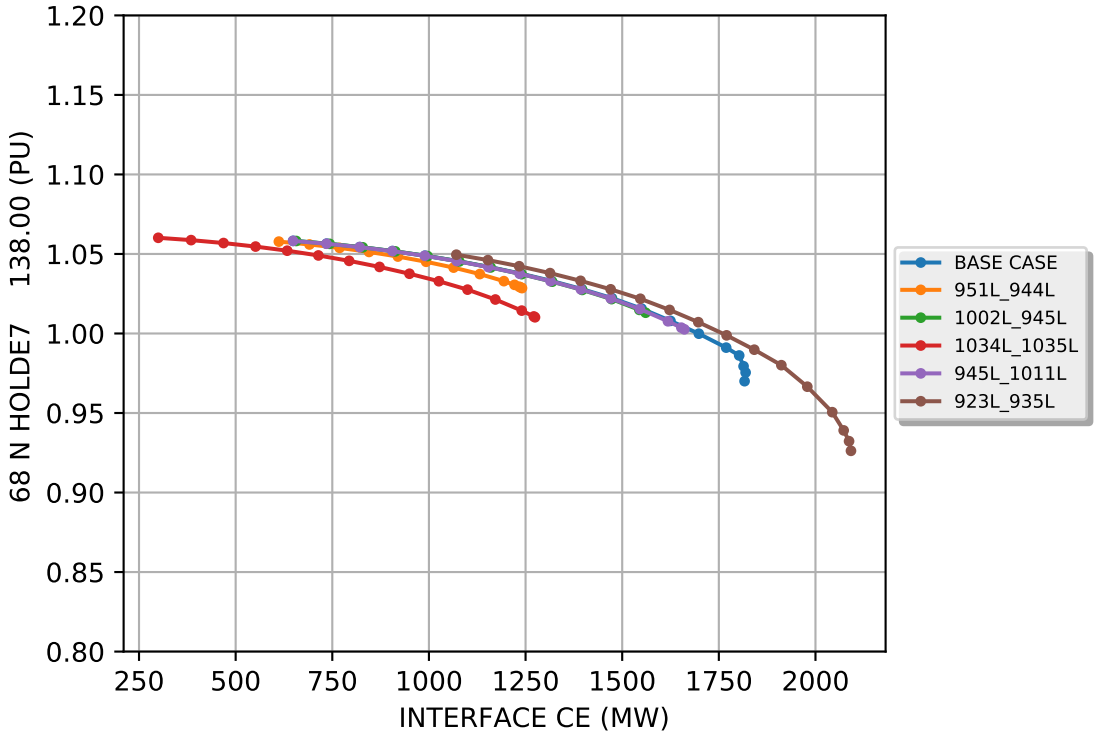


Figure: E-5-42

Case: M12, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 95.3%

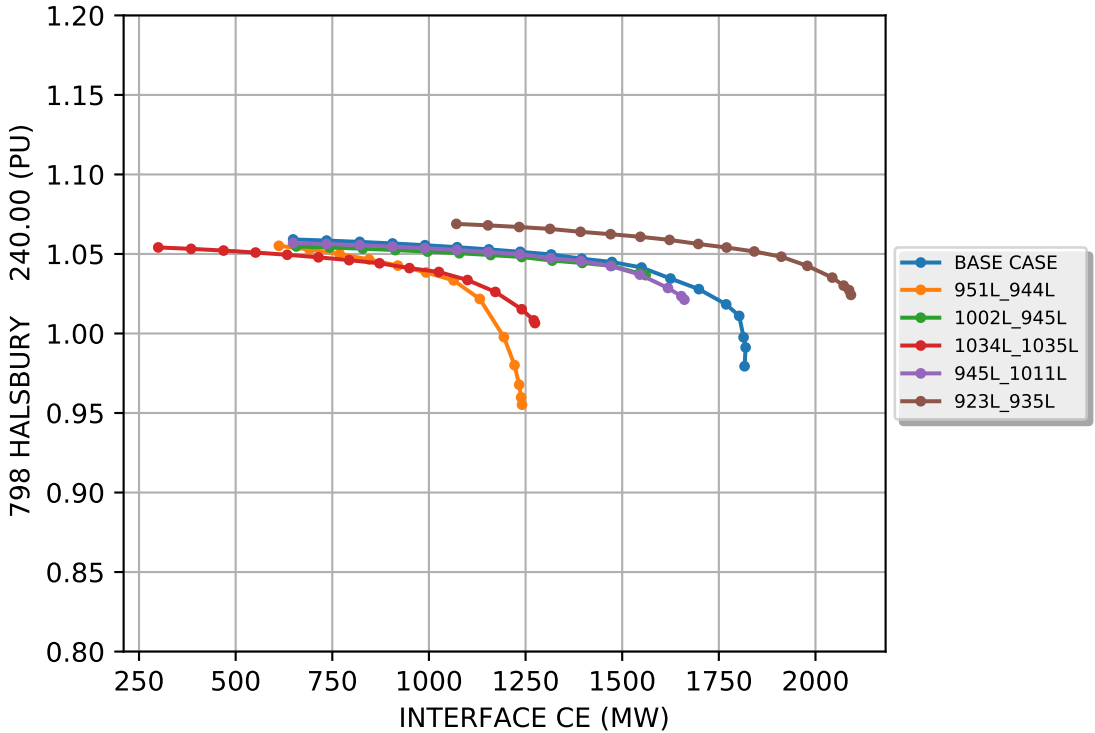


Figure: E-5-43

Case: M12, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 95.3%

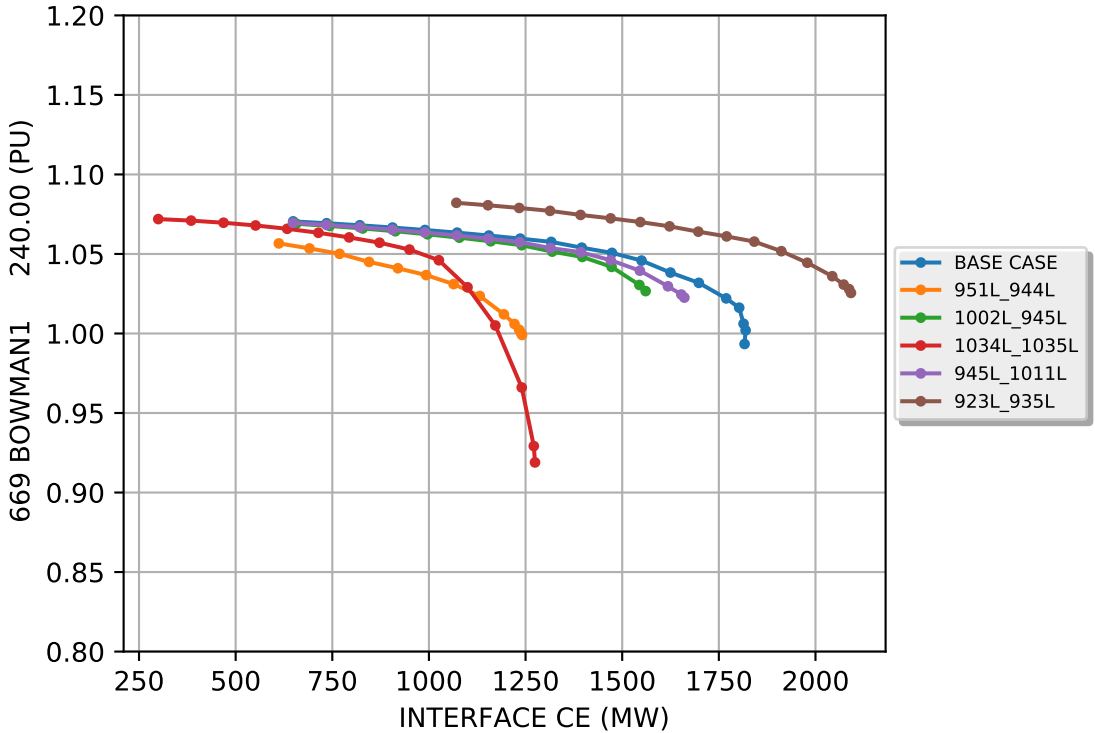


Figure: E-5-44

Case: M12, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 95.3%

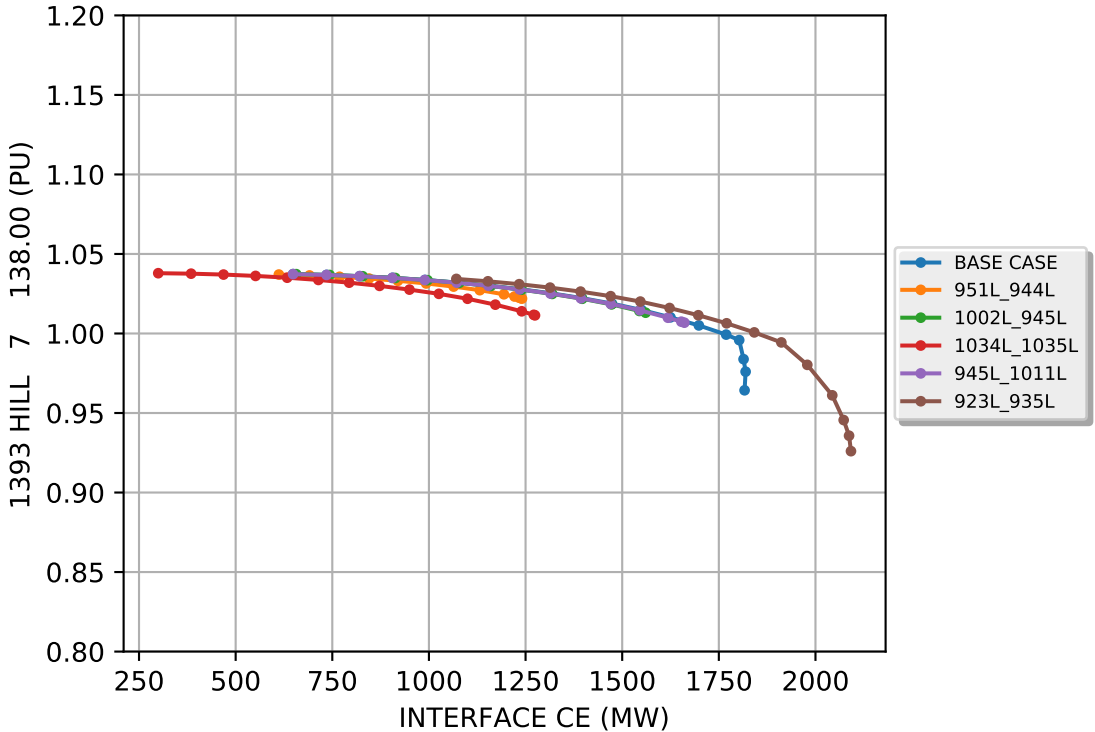


Figure: E-5-45

Case: M12, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 95.3%

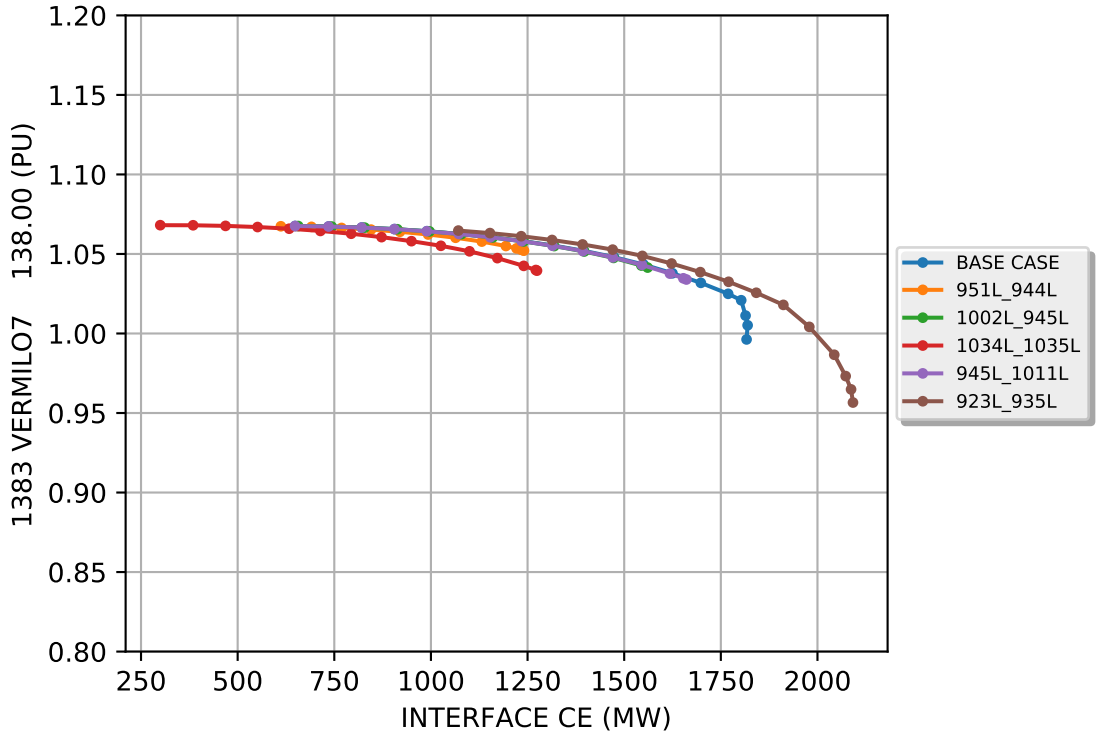


Figure: E-5-46

Case: M12, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 95.3%

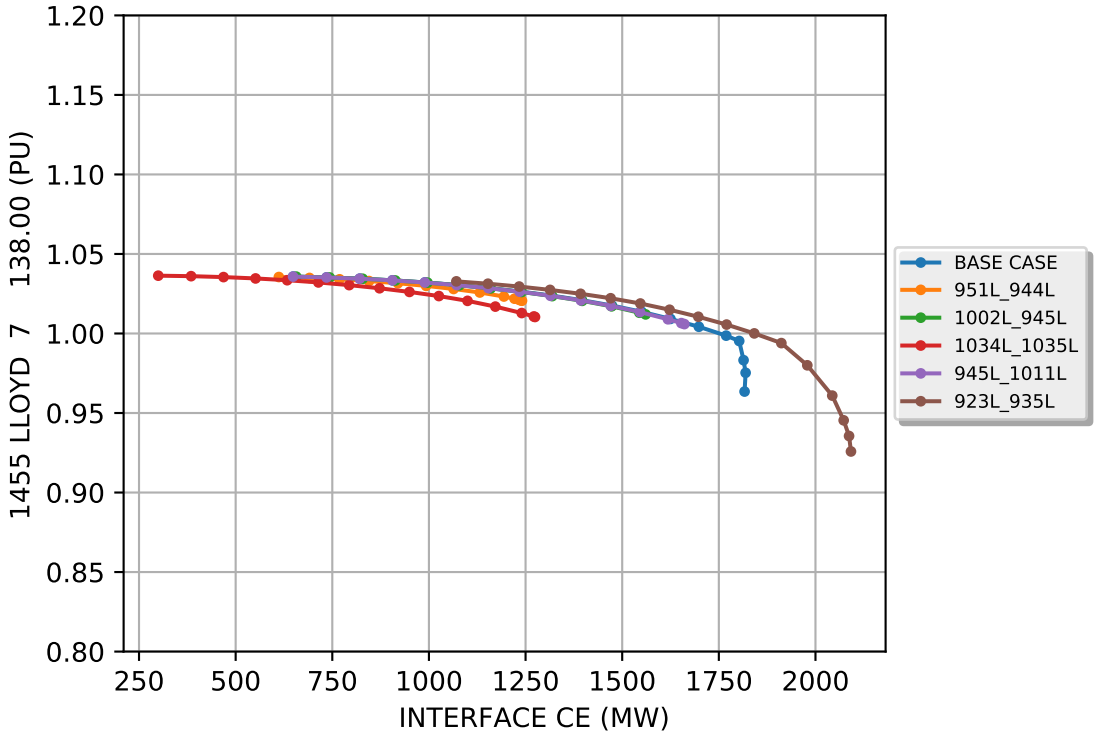


Figure: E-5-47

Case: M13, Option: BOTH

Min Voltage: 0.84 PU, Min Margin: 78.6%

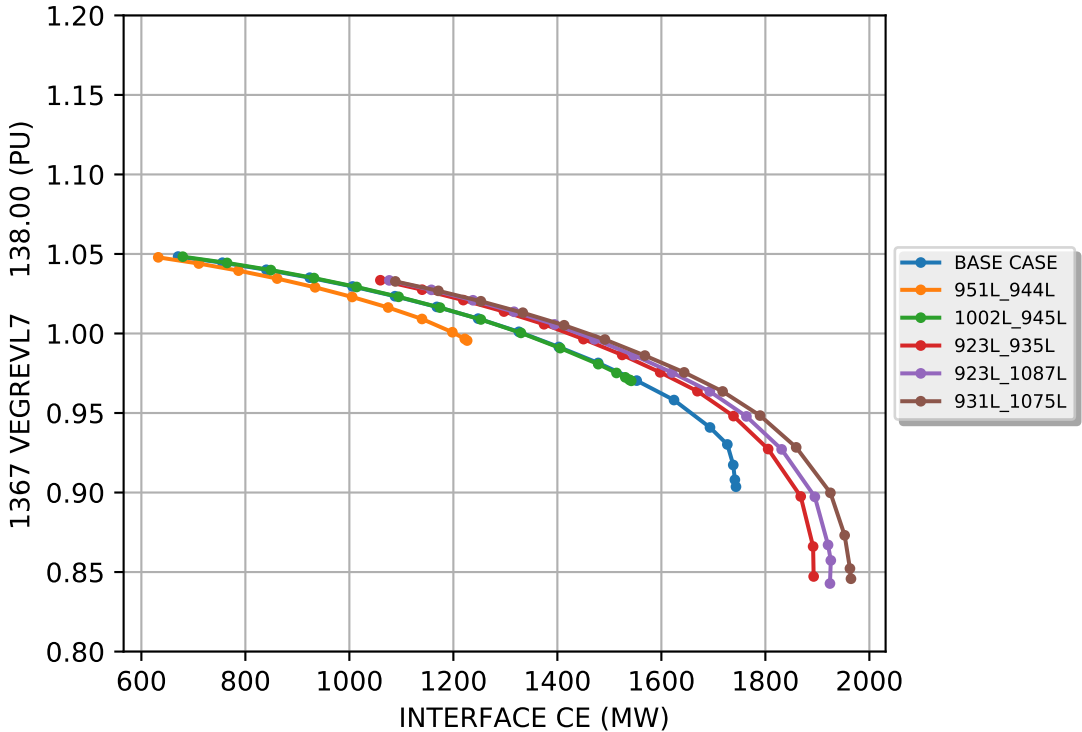


Figure: E-5-48

Case: M13, Option: BOTH

Min Voltage: 0.86 PU, Min Margin: 78.6%

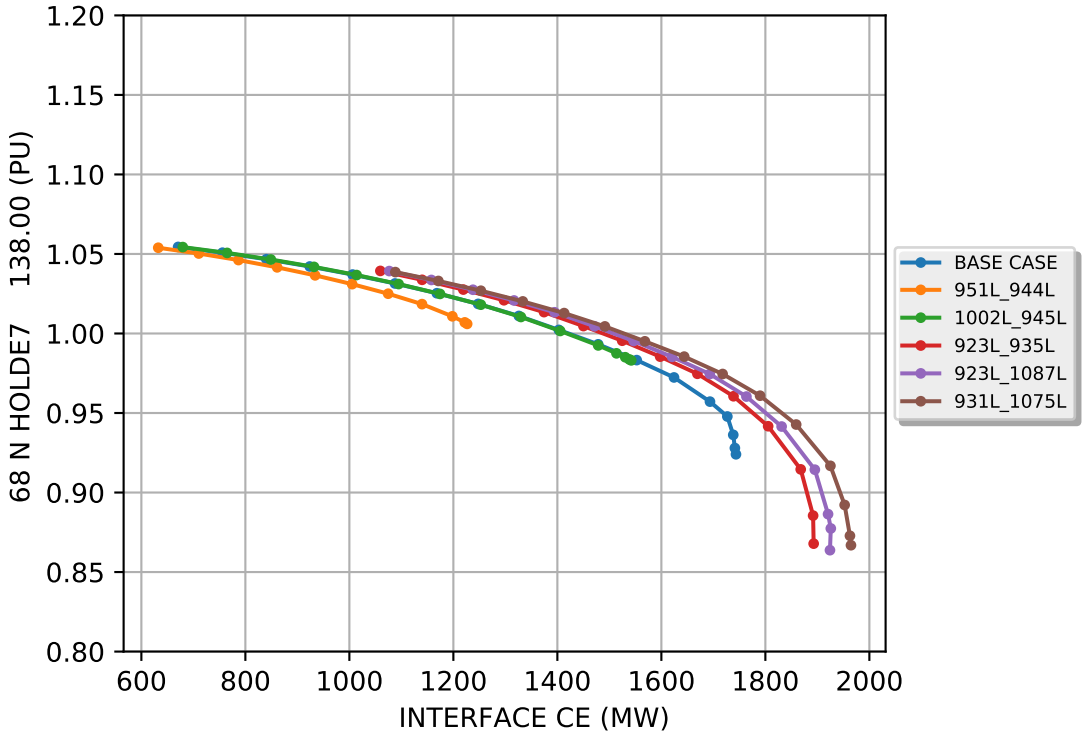


Figure: E-5-49

Case: M13, Option: BOTH

Min Voltage: 0.86 PU, Min Margin: 78.6%

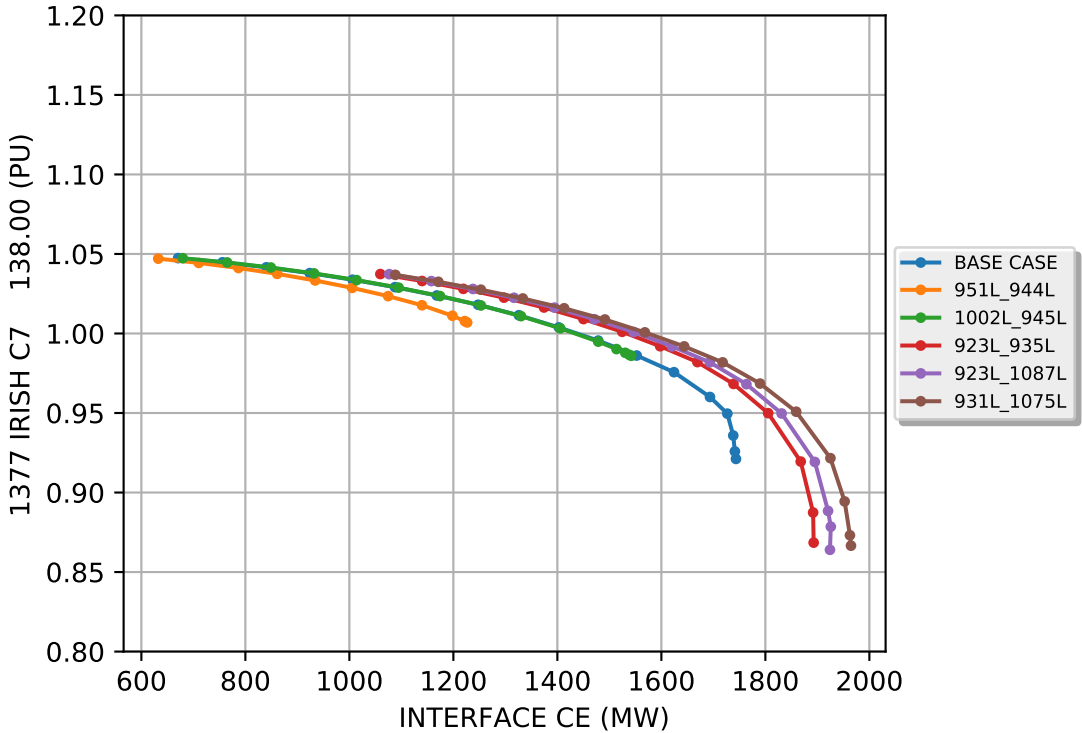


Figure: E-5-50

Case: M13, Option: BOTH

Min Voltage: 0.88 PU, Min Margin: 78.6%

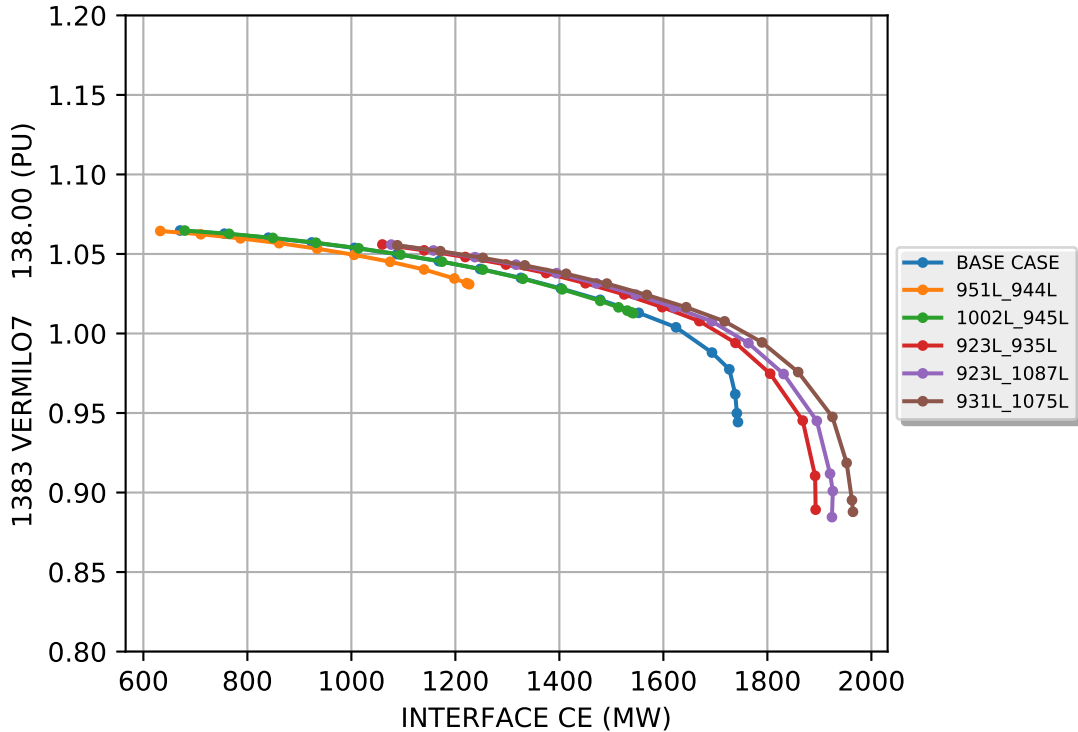


Figure: E-5-51

Case: M13, Option: BOTH

Min Voltage: 0.86 PU, Min Margin: 78.6%

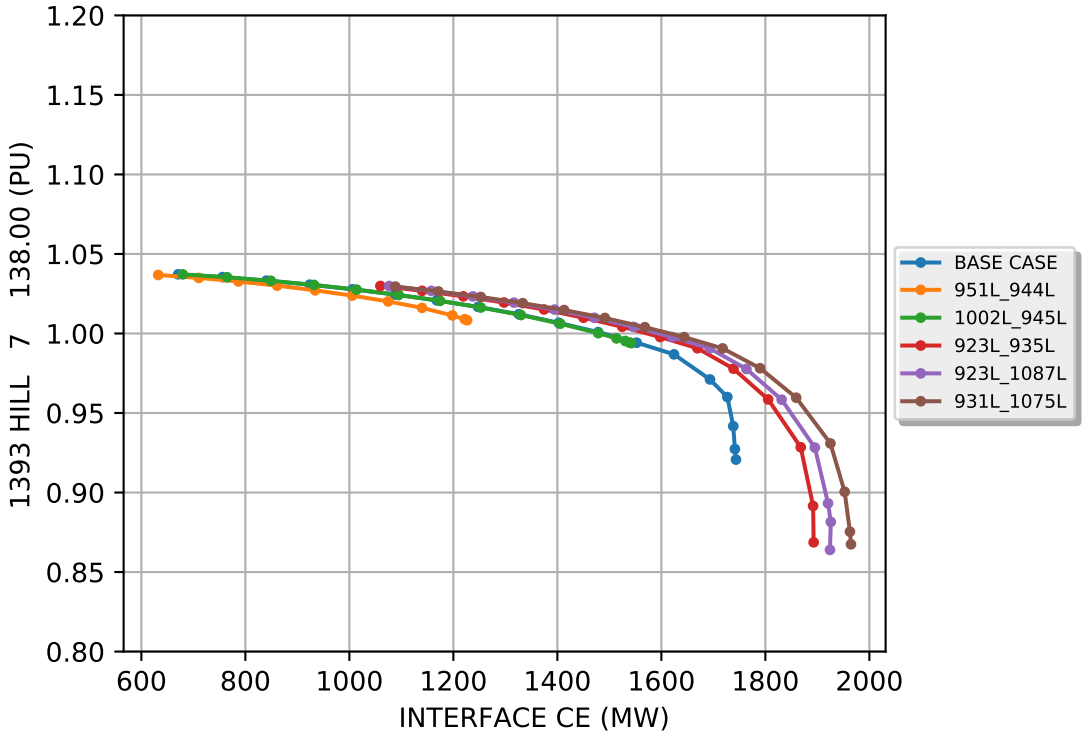


Figure: E-5-52

Case: M13, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 78.6%

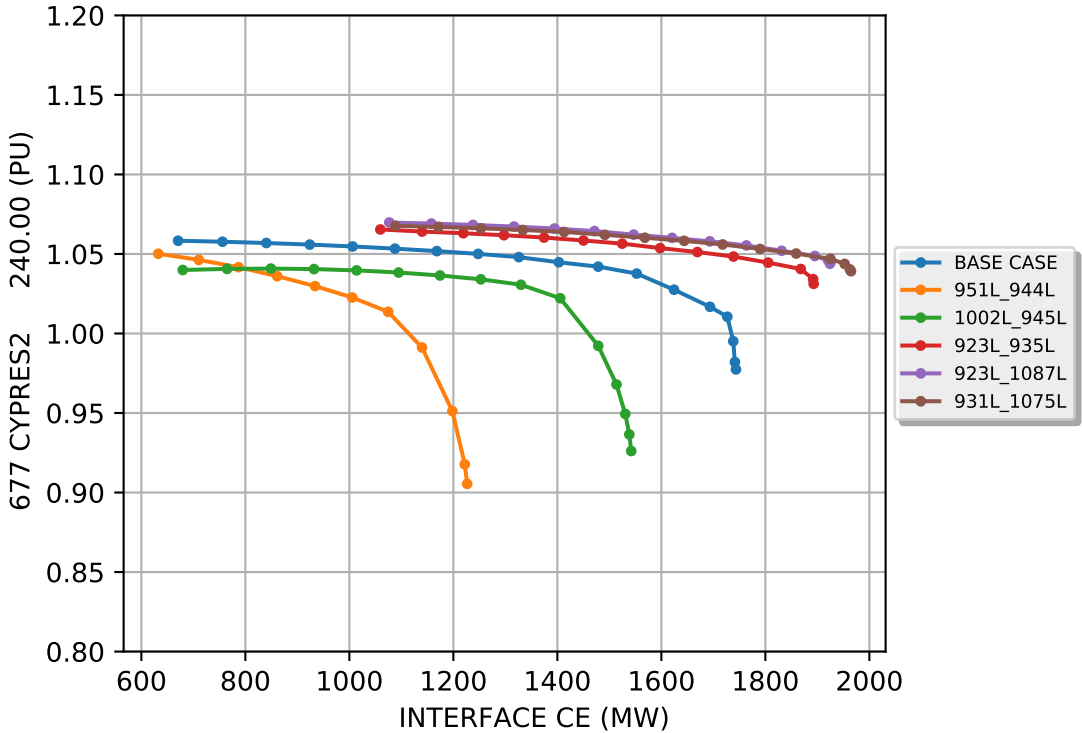


Figure: E-5-53

Case: M13, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 78.6%

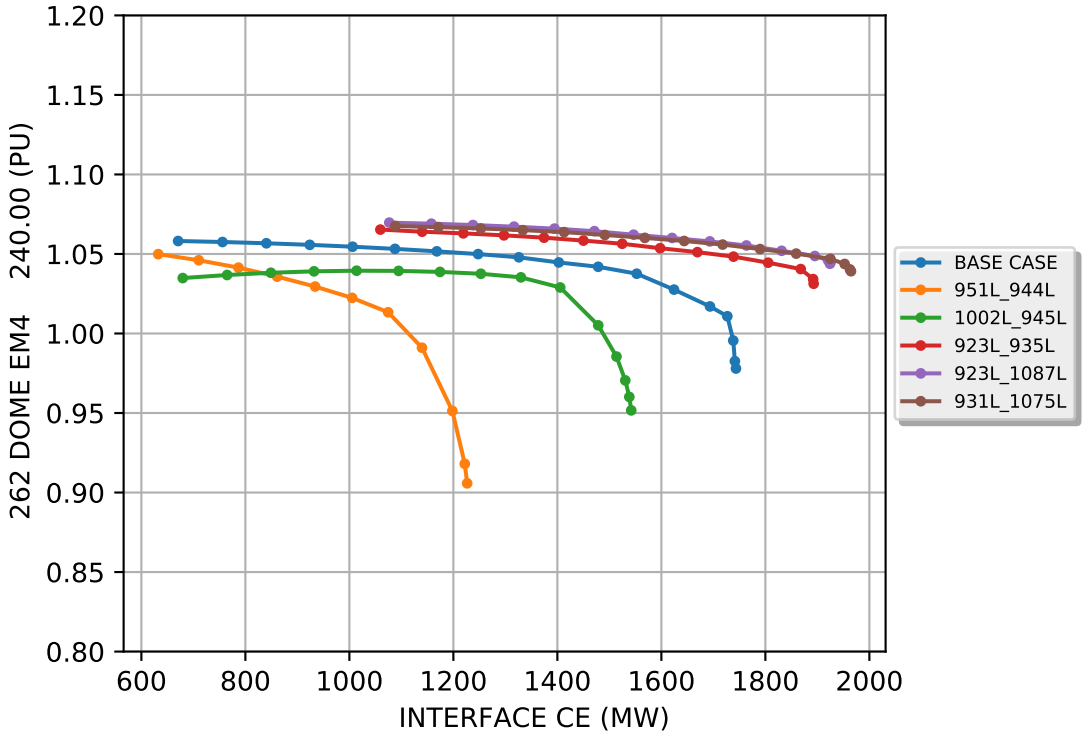


Figure: E-5-54

Case: M13, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 78.6%

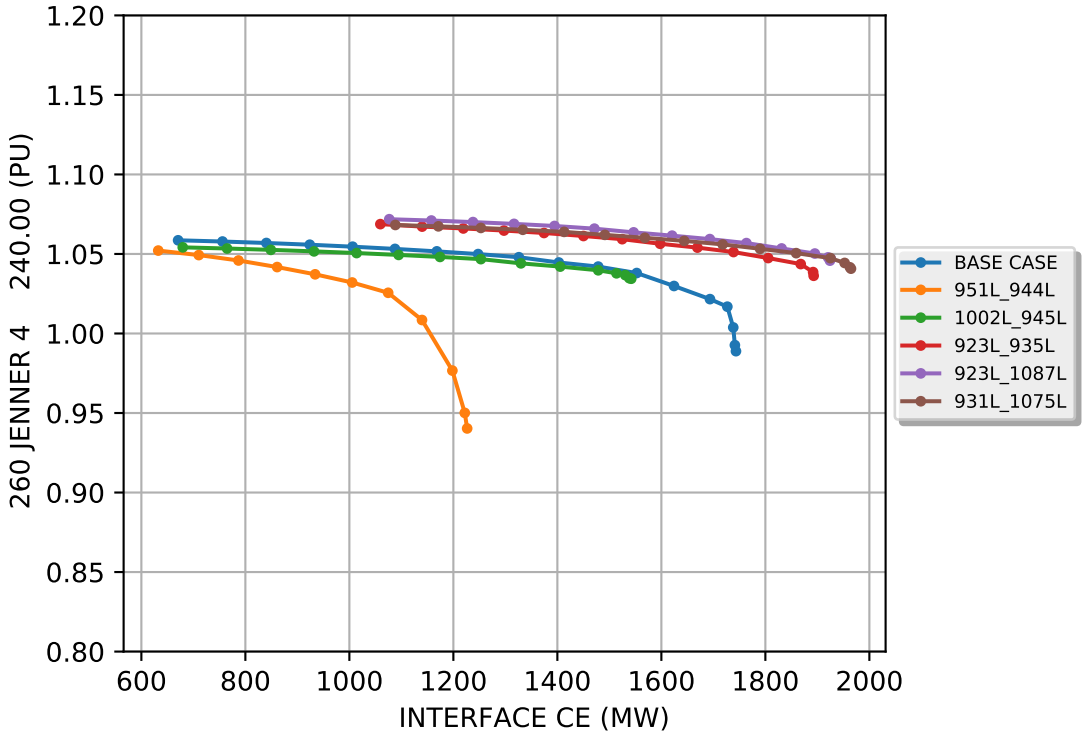


Figure: E-5-55

Case: M13, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 78.6%

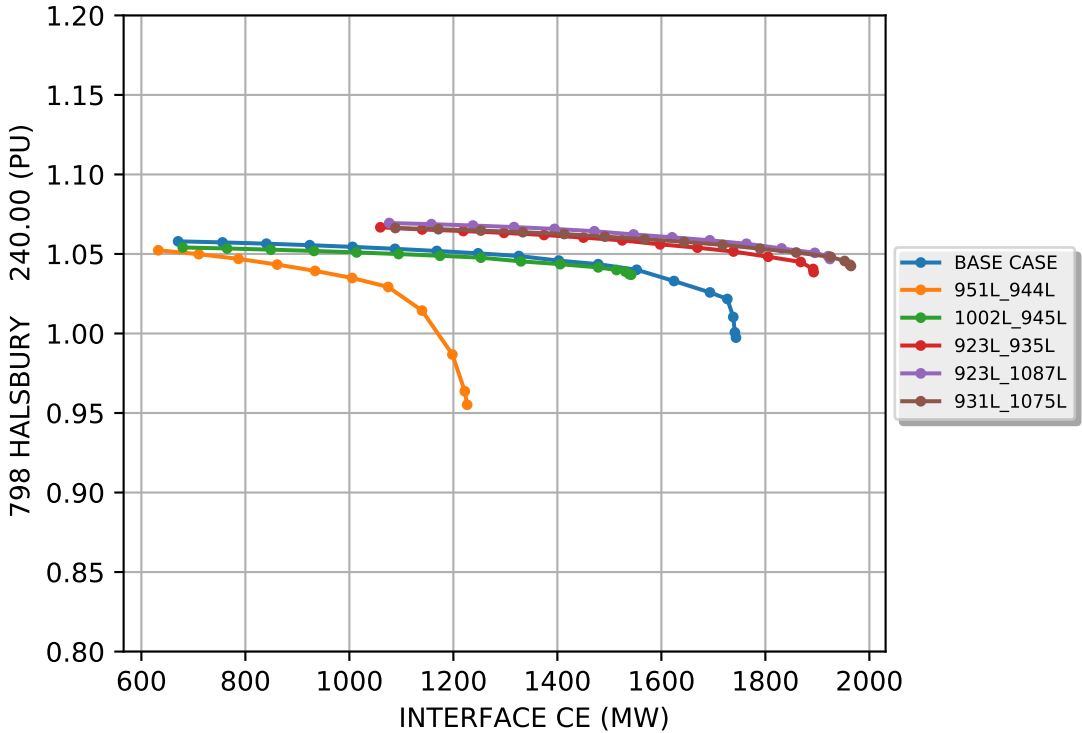


Figure: E-5-56

Case: M13, Option: BOTH

Min Voltage: 0.99 PU, Min Margin: 78.6%

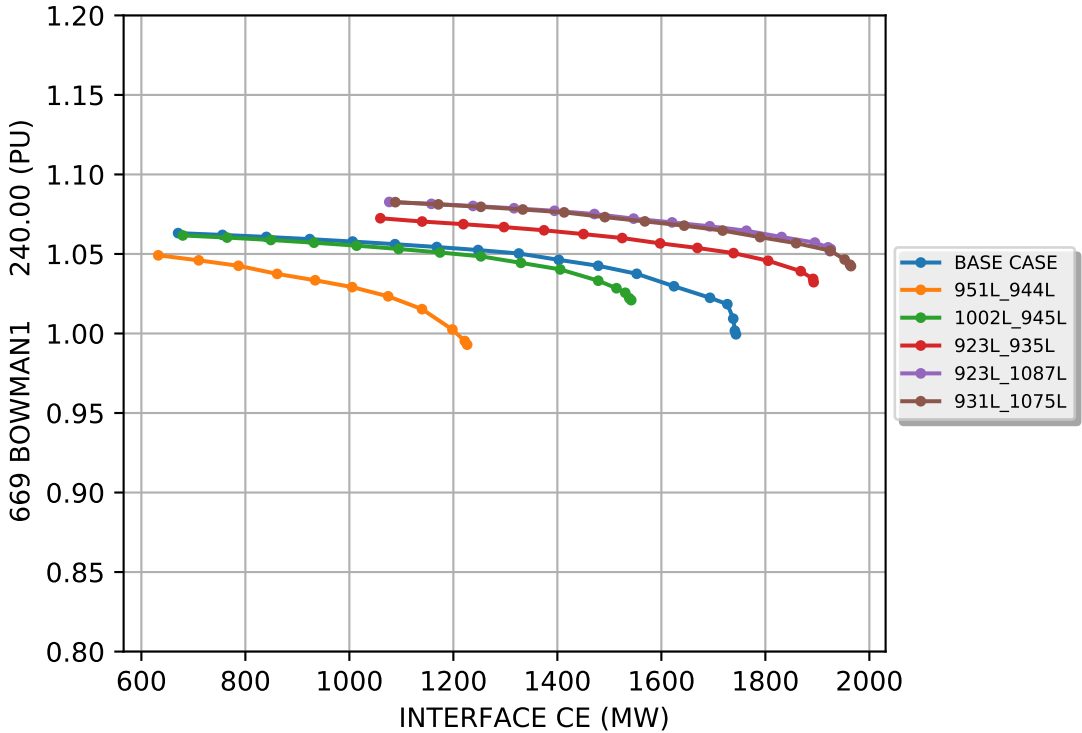


Figure: E-5-57

Case: M14, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 79.0%

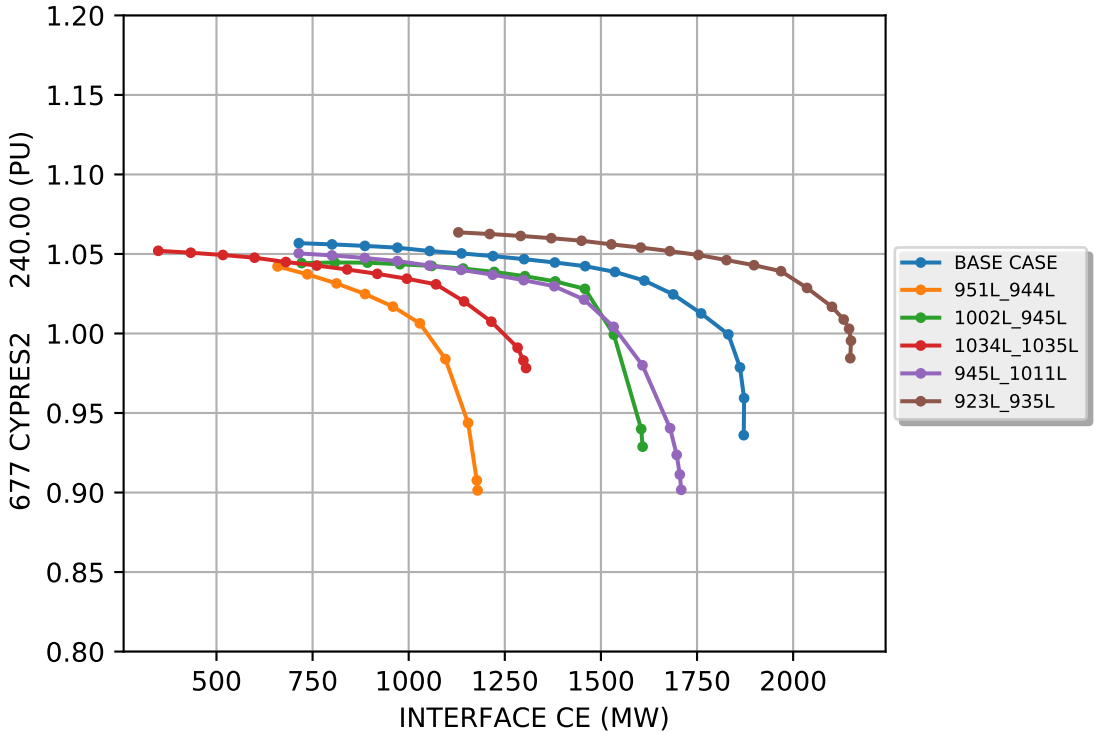


Figure: E-5-58

Case: M14, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 79.0%

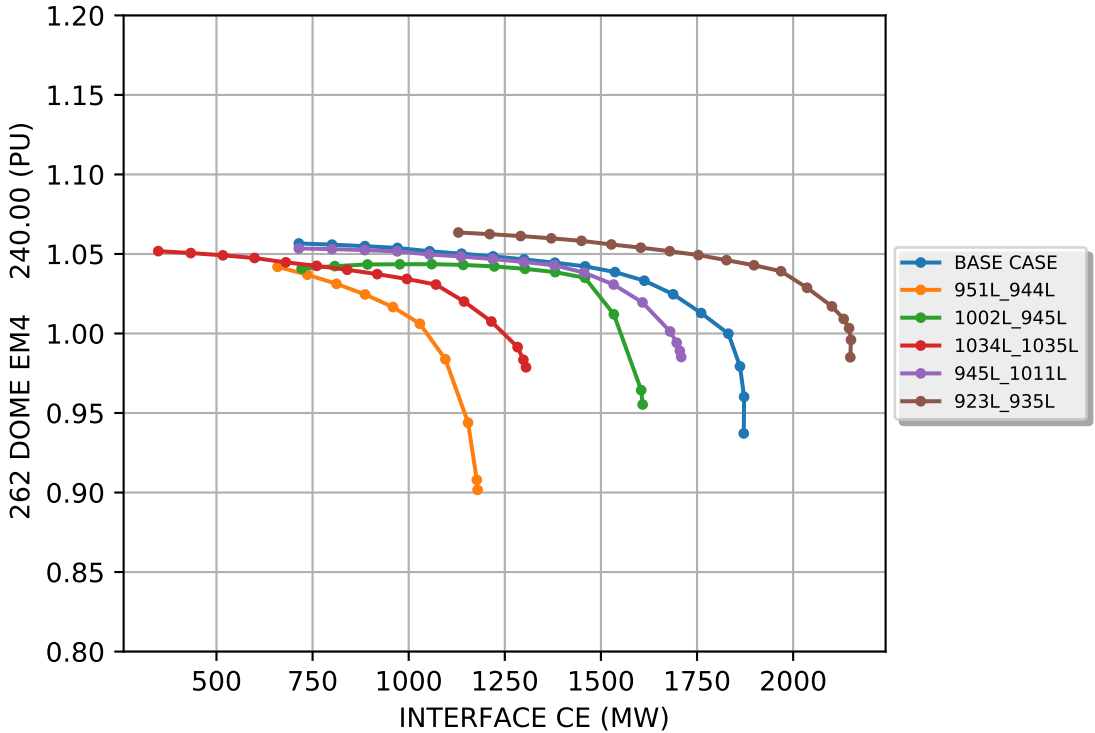


Figure: E-5-59

Case: M14, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 79.0%

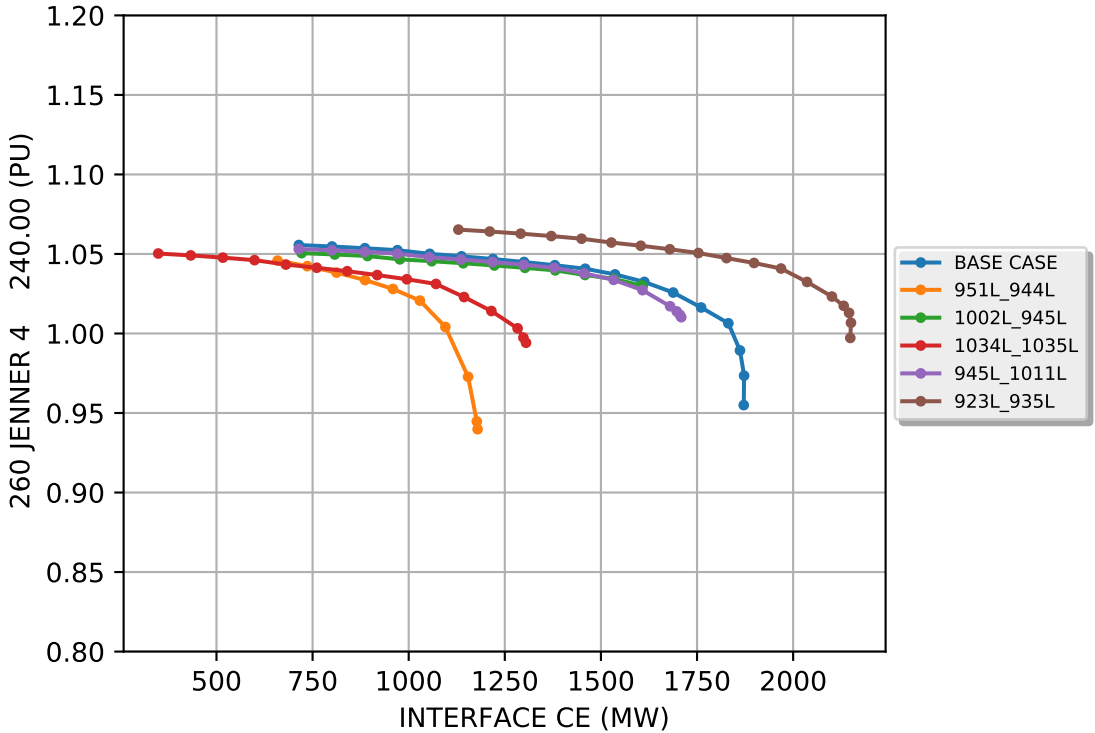


Figure: E-5-60

Case: M14, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 79.0%

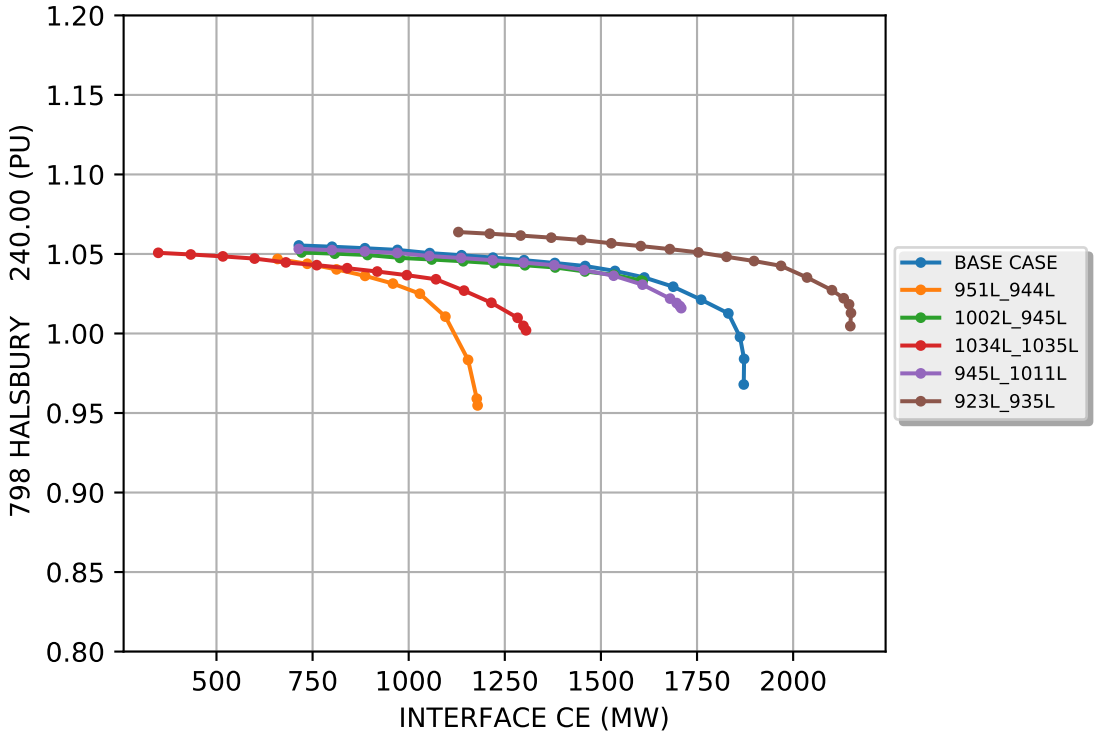


Figure: E-5-61

Case: M14, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 79.0%

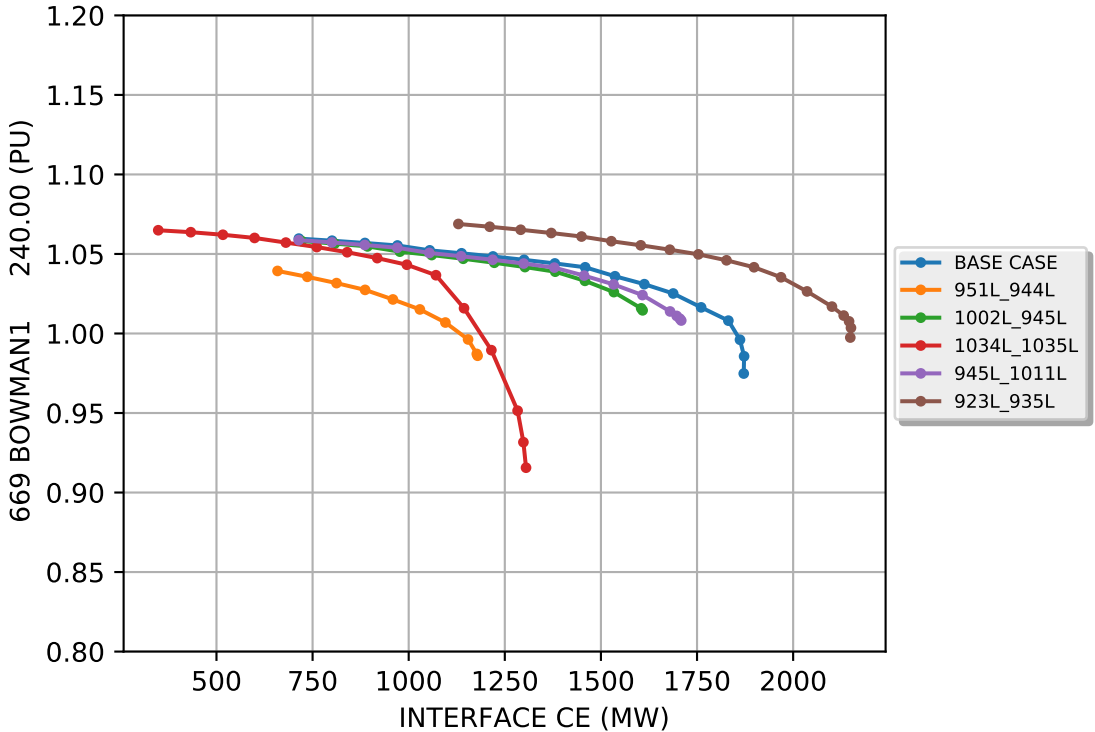


Figure: E-5-62

Case: M14, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 79.0%

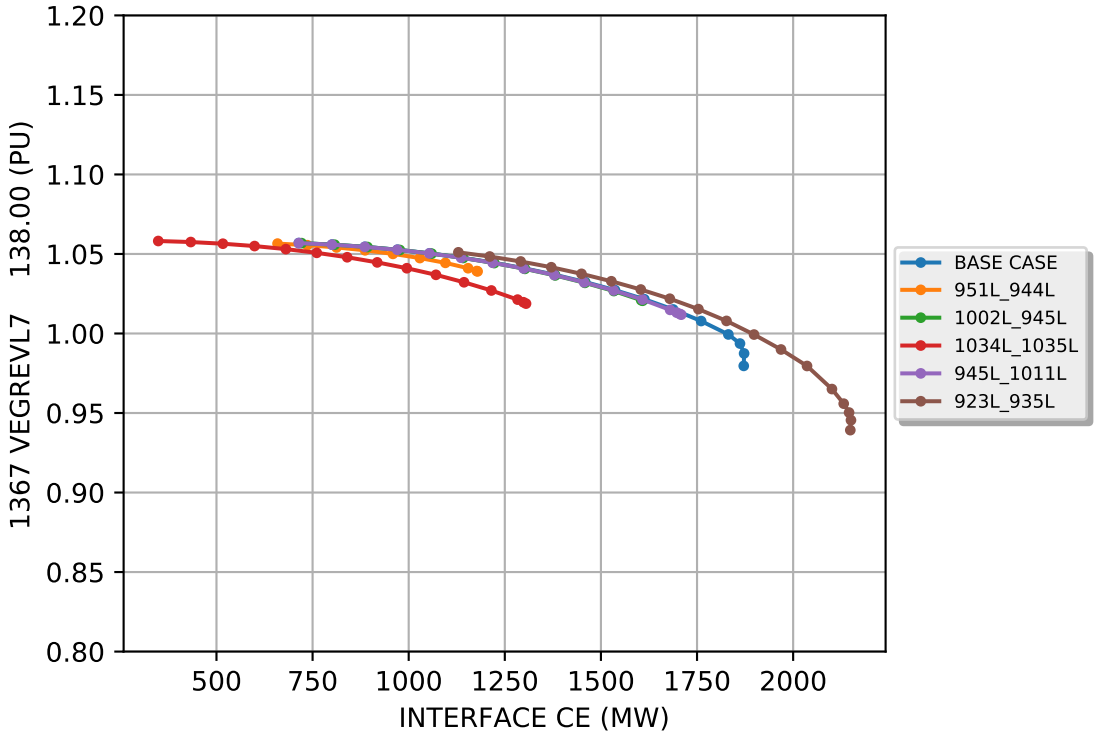


Figure: E-5-63

Case: M14, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 79.0%

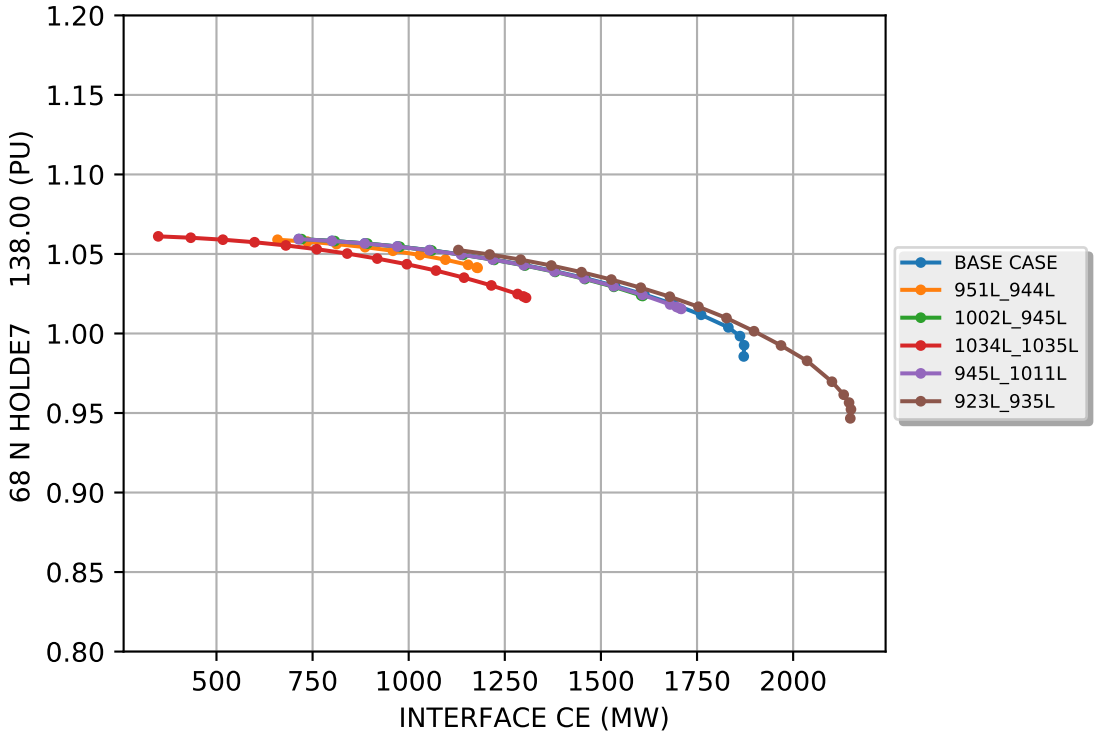


Figure: E-5-64

Case: M14, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 79.0%

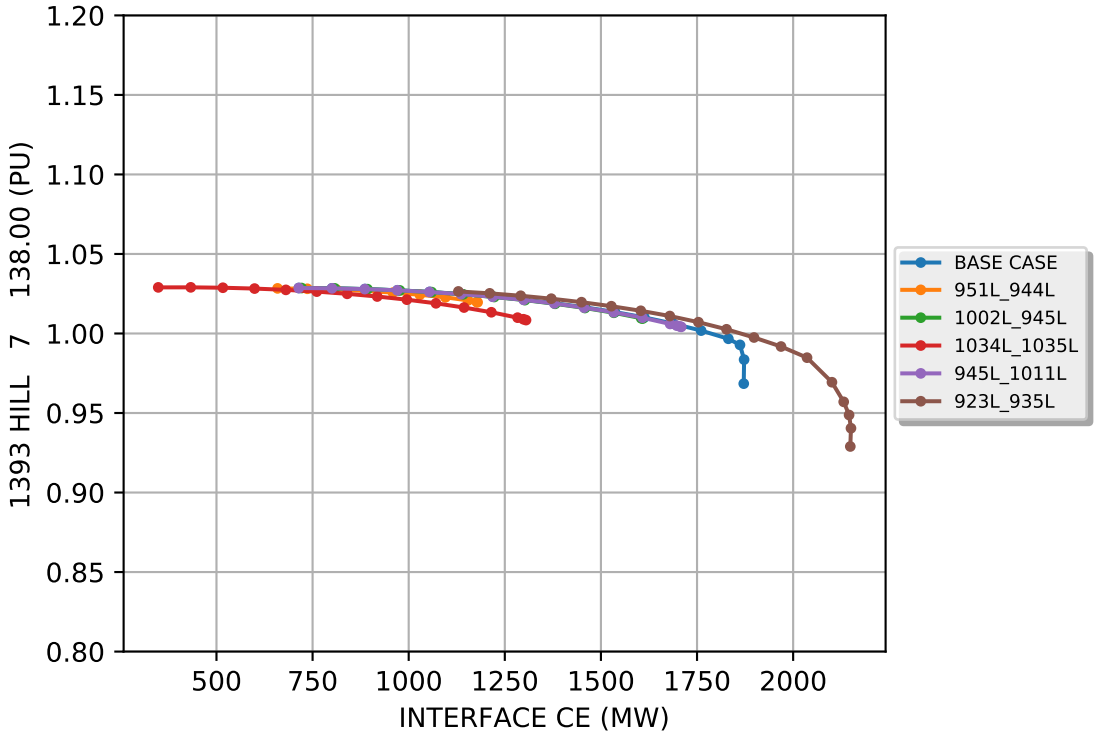


Figure: E-5-65

Case: M14, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 79.0%

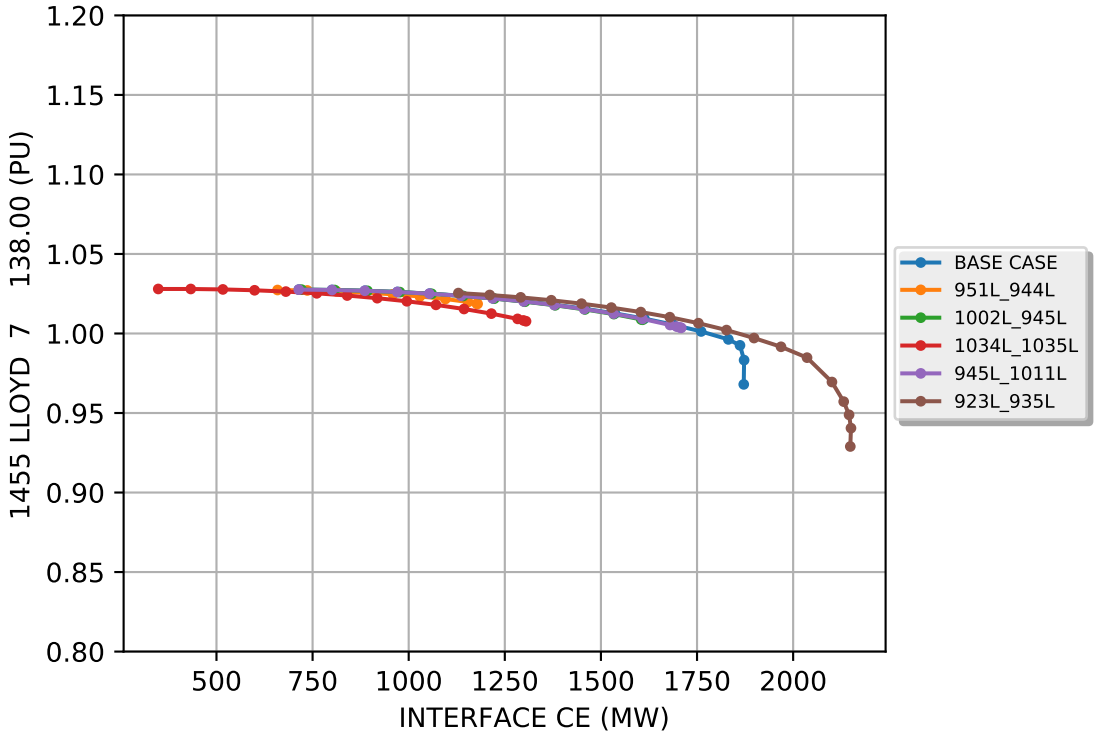


Figure: E-5-66

Case: M14, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 79.0%

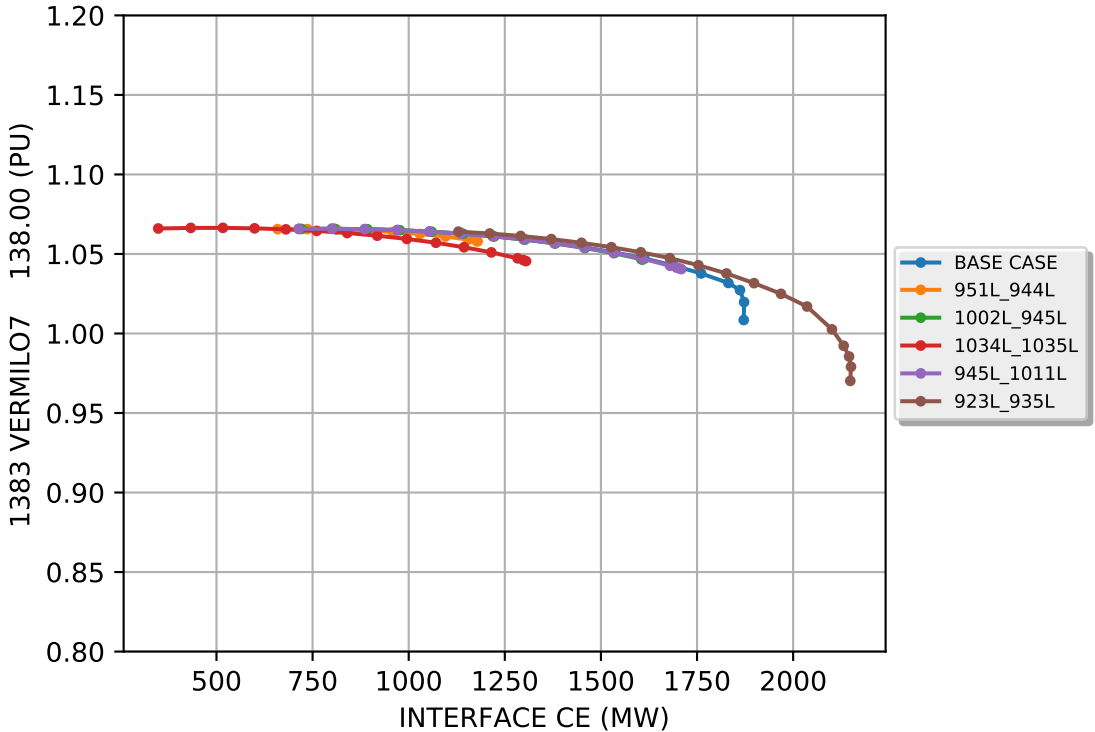


Figure: E-5-67

Case: H8, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 40.4%

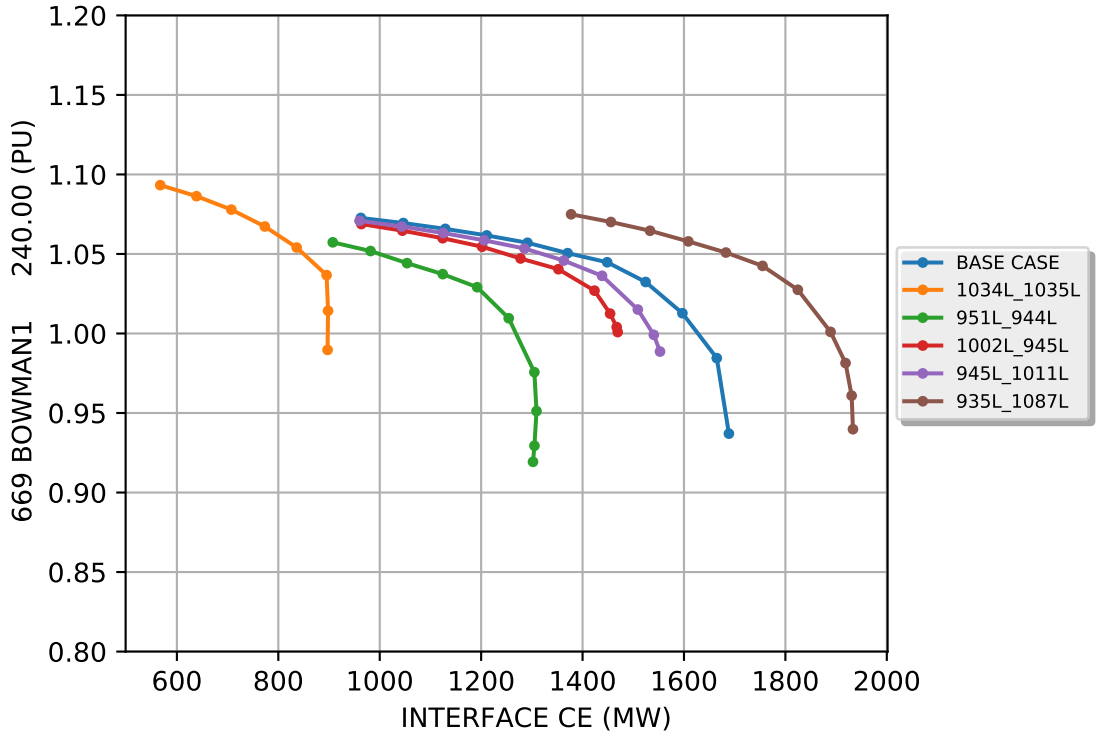


Figure: E-5-68

Case: H8, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 40.4%

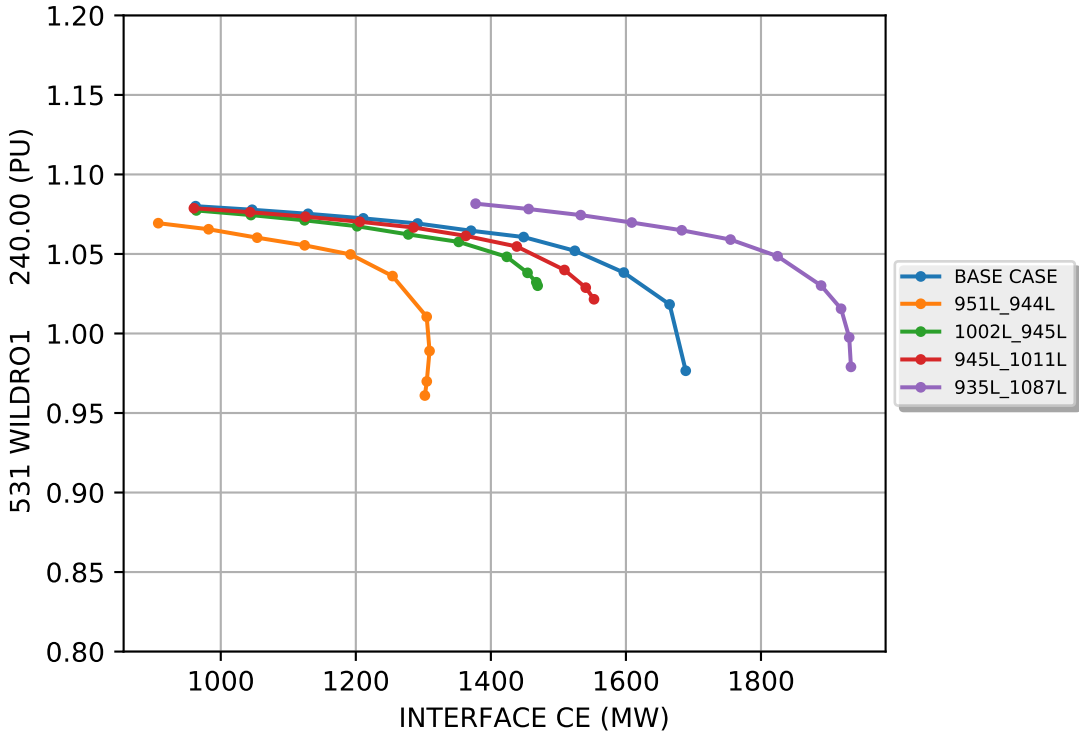


Figure: E-5-69

Case: H8, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 40.4%

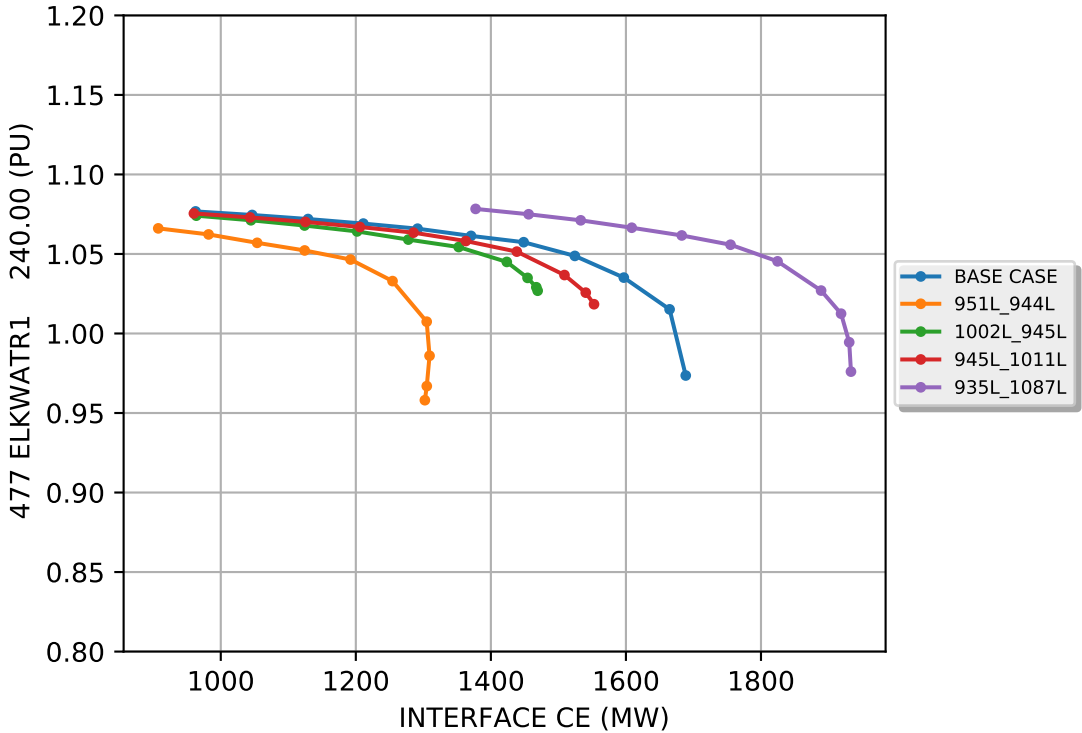


Figure: E-5-70

Case: H8, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 40.4%

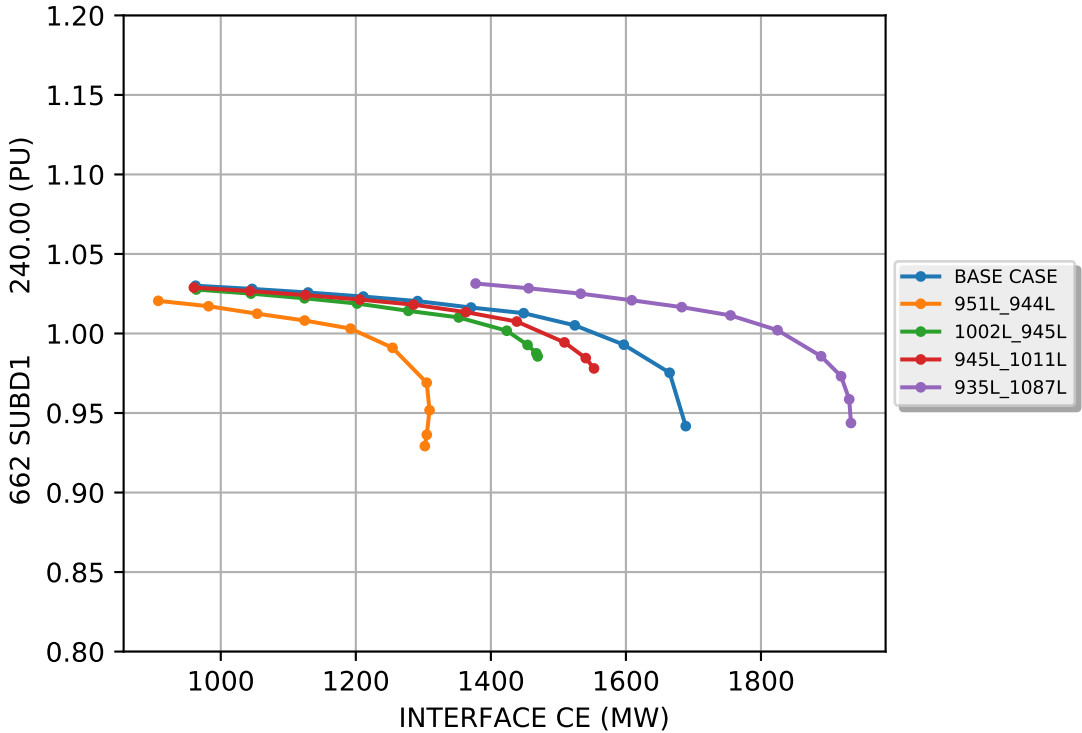


Figure: E-5-71

Case: H8, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 40.4%

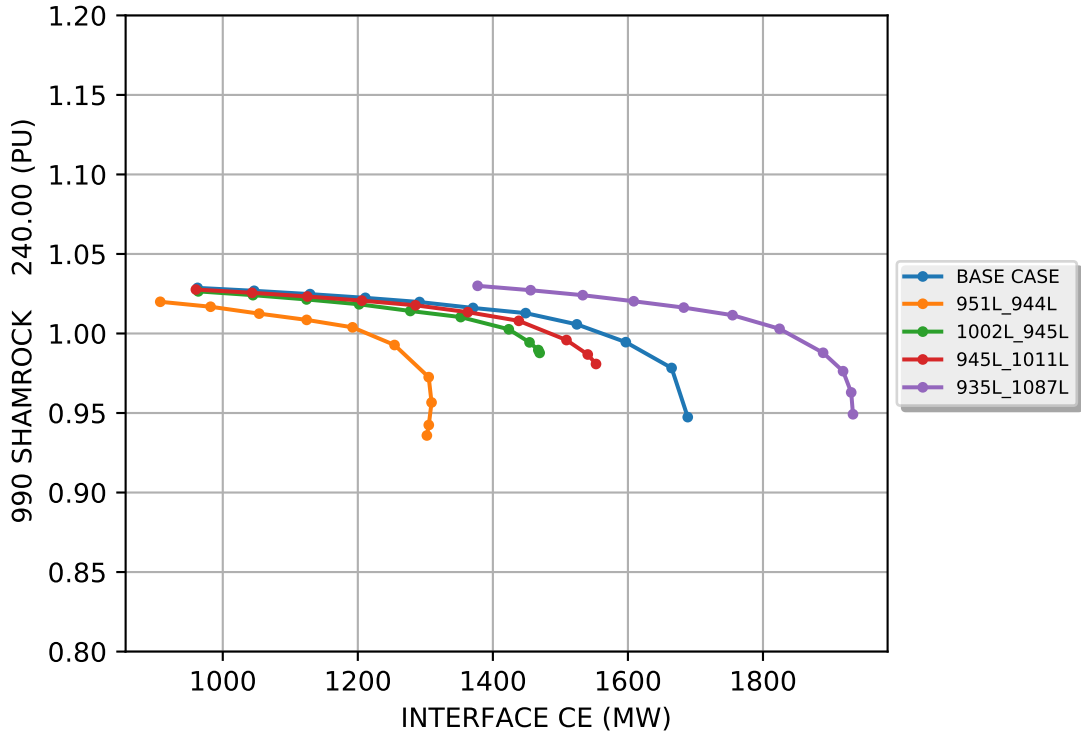


Figure: E-5-72

Case: H8, Option: BOTH

Min Voltage: 0.86 PU, Min Margin: 40.4%

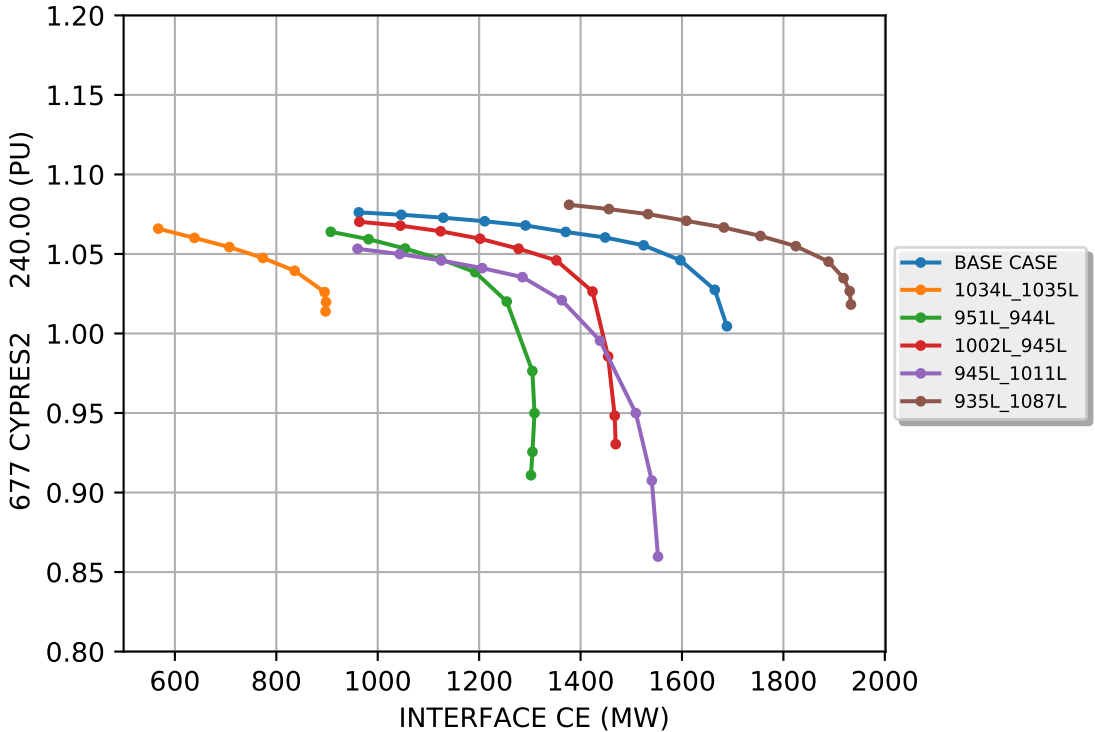


Figure: E-5-73

Case: H8, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 40.4%

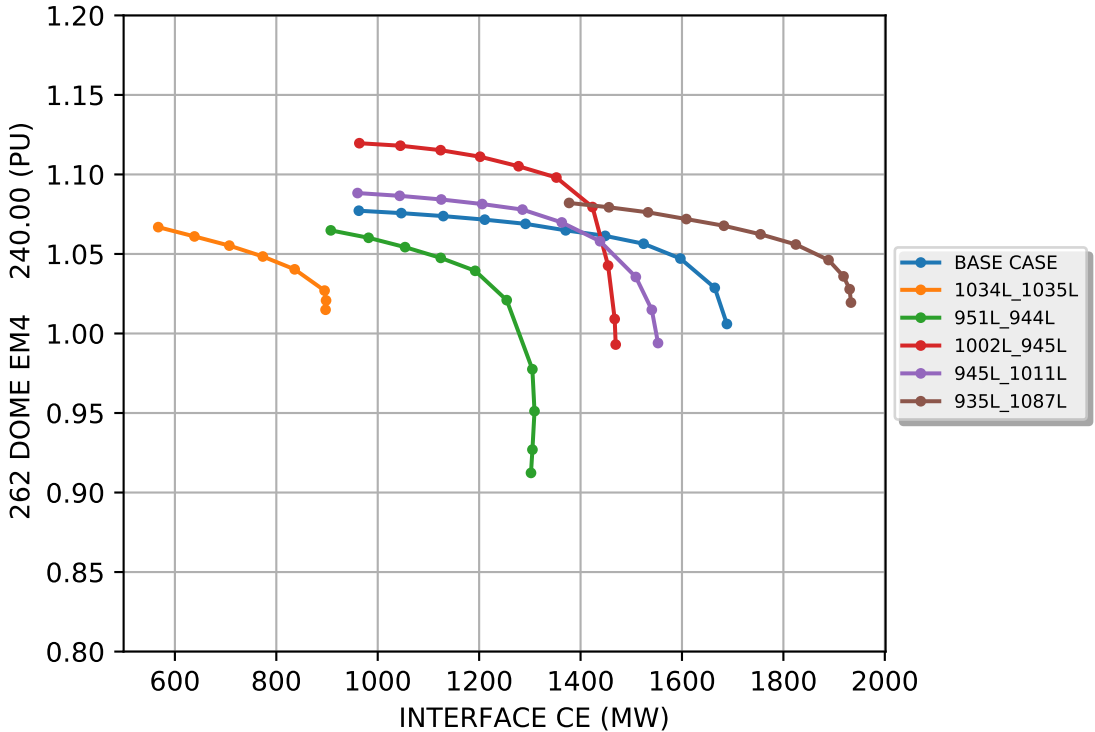


Figure: E-5-74

Case: H8, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 40.4%

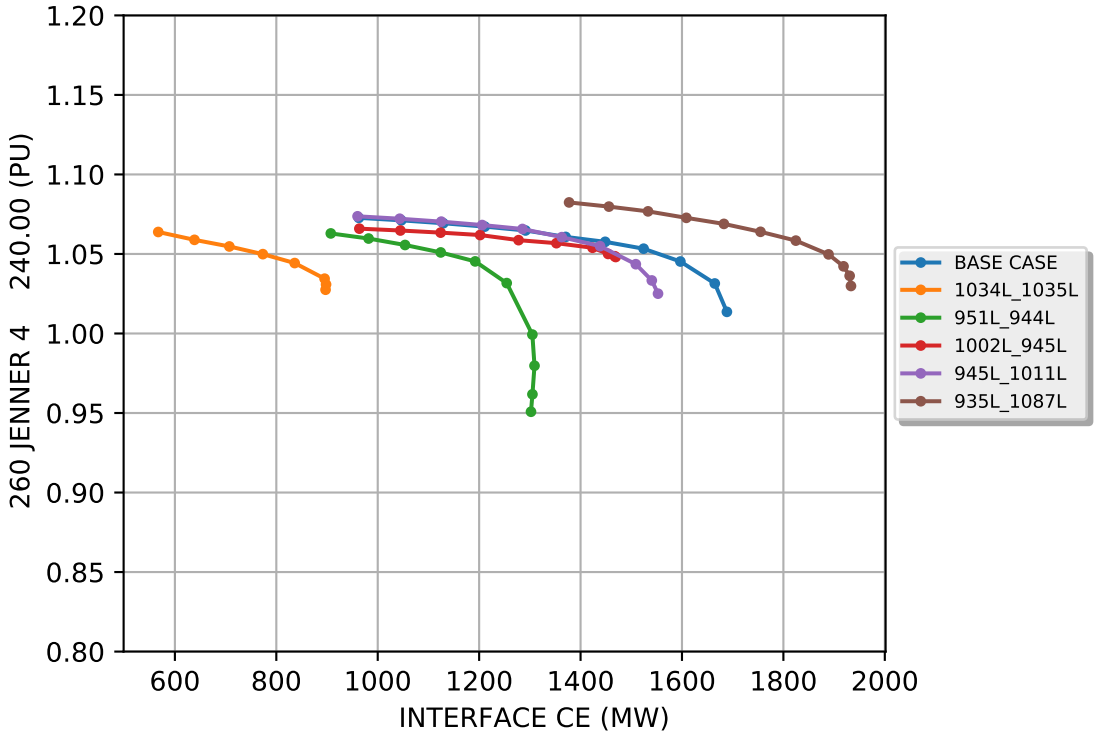


Figure: E-5-75

Case: H8, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 40.4%

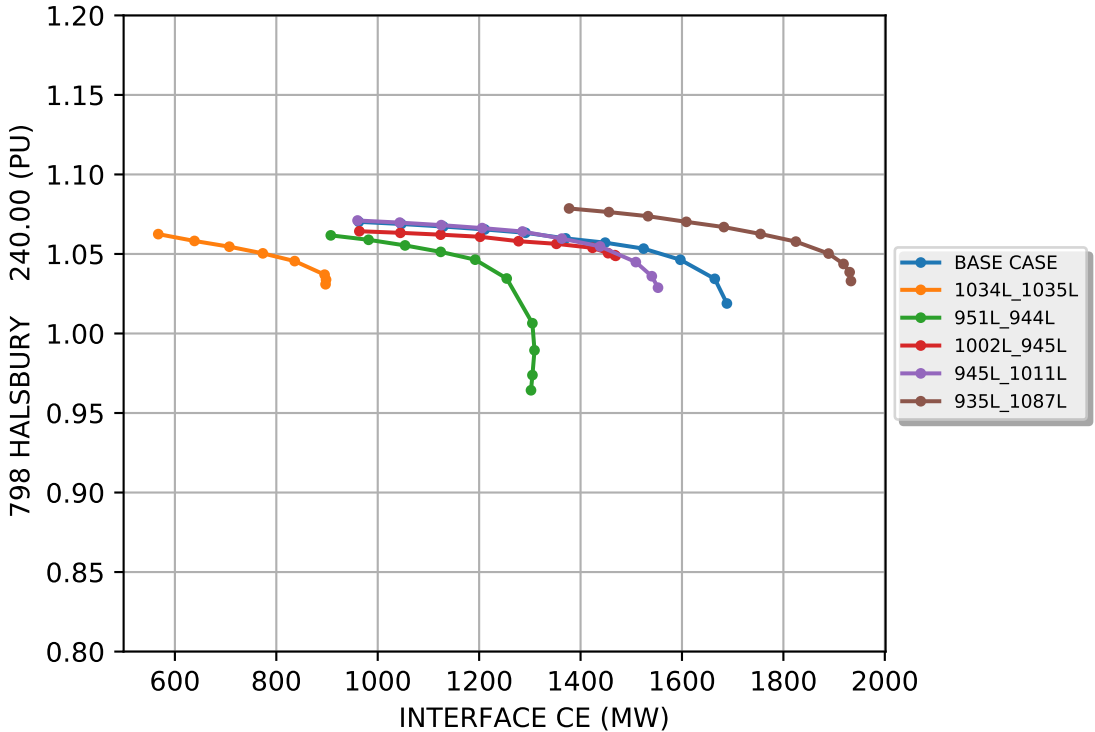


Figure: E-5-76

Case: H9, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 92.4%

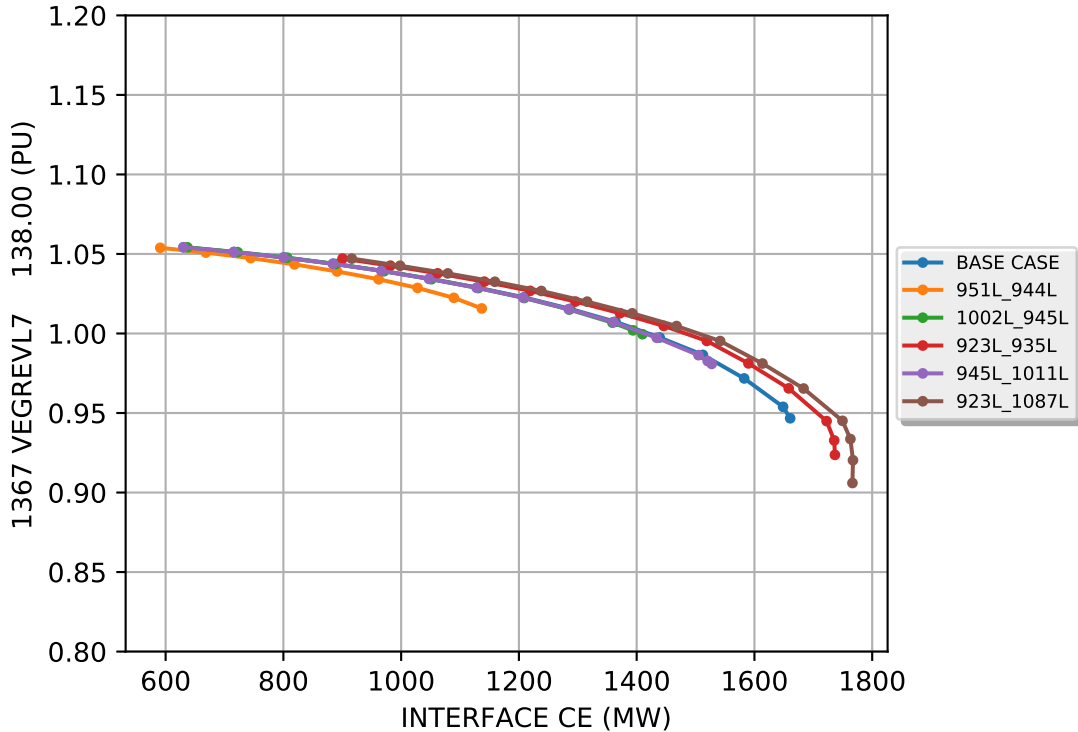


Figure: E-5-77

Case: H9, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 92.4%

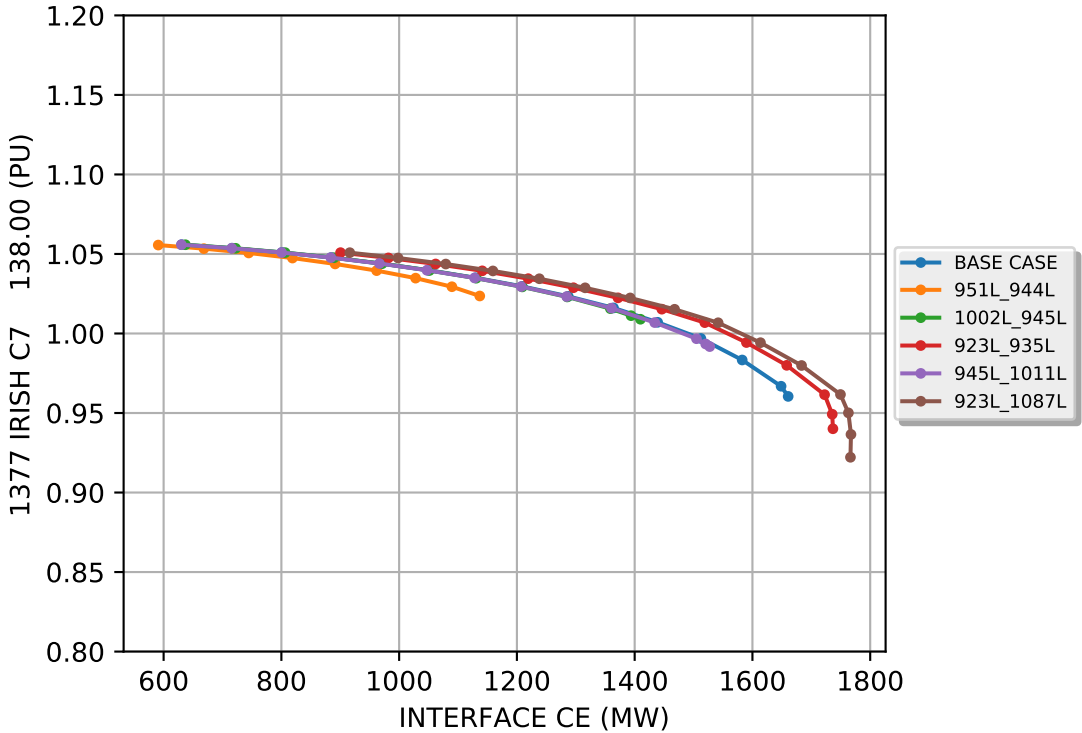


Figure: E-5-78

Case: H9, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 92.4%

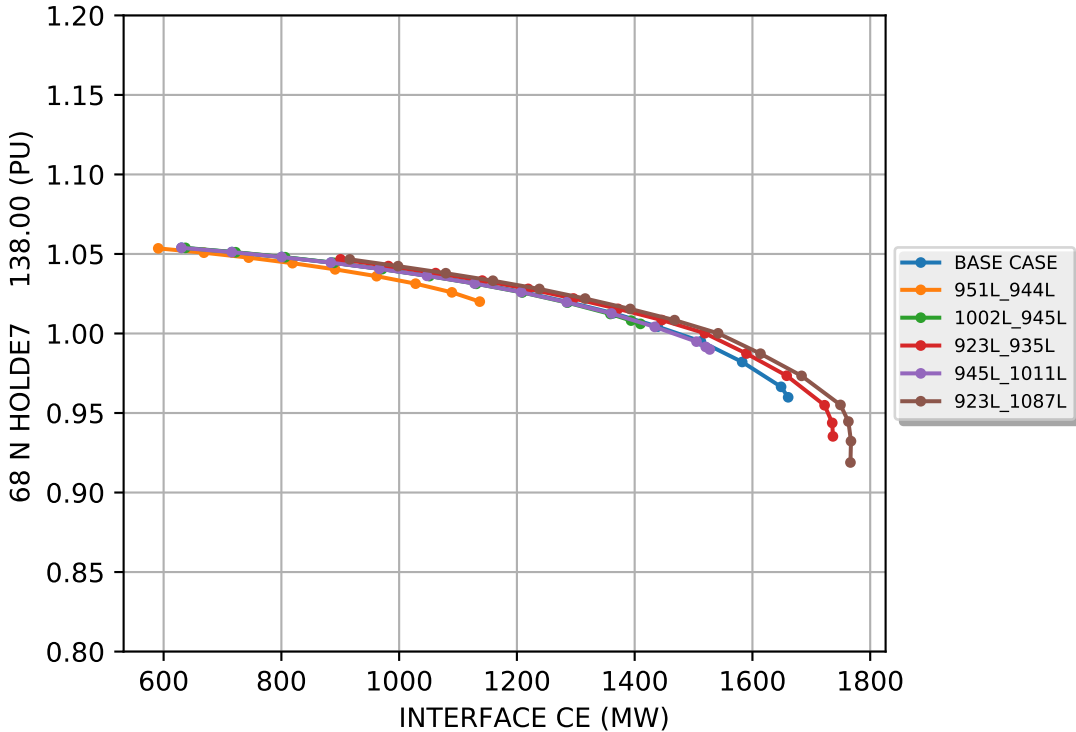


Figure: E-5-79

Case: H9, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 92.4%

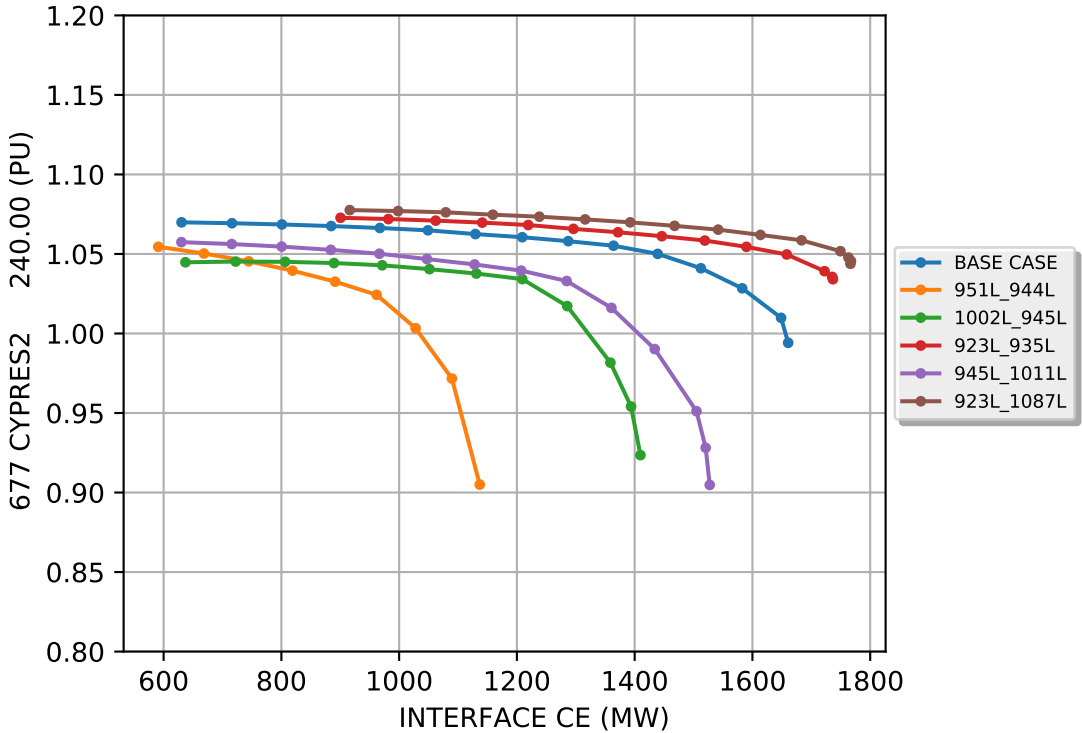


Figure: E-5-80

Case: H9, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 92.4%

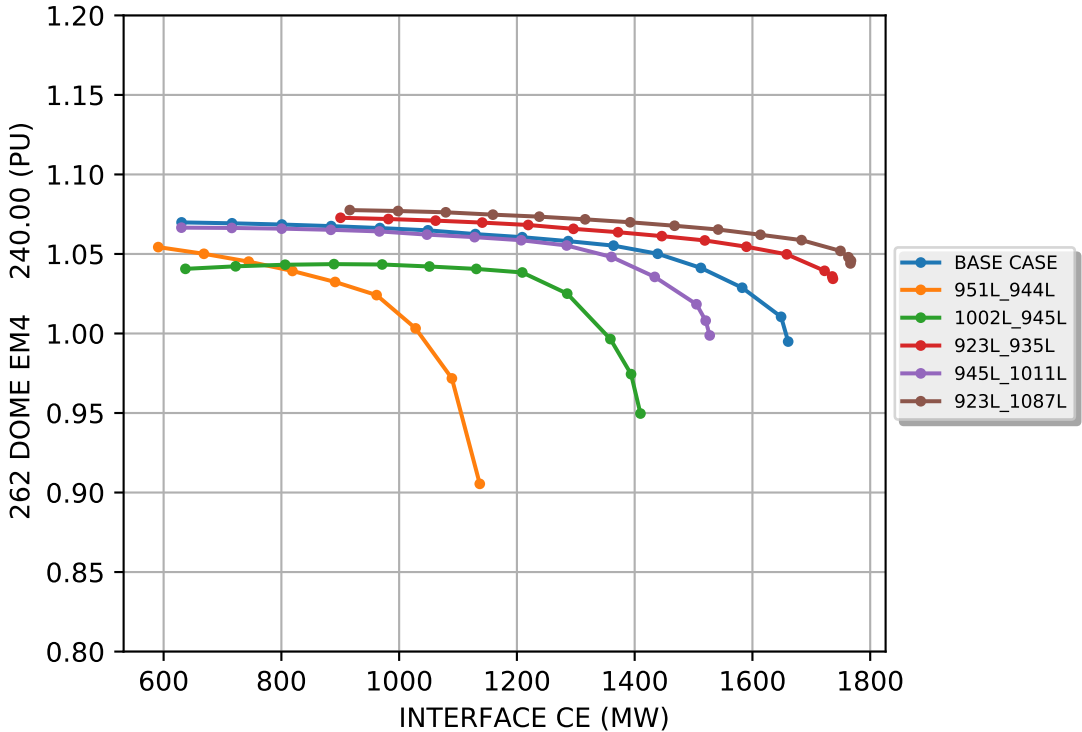


Figure: E-5-81

Case: H9, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 92.4%

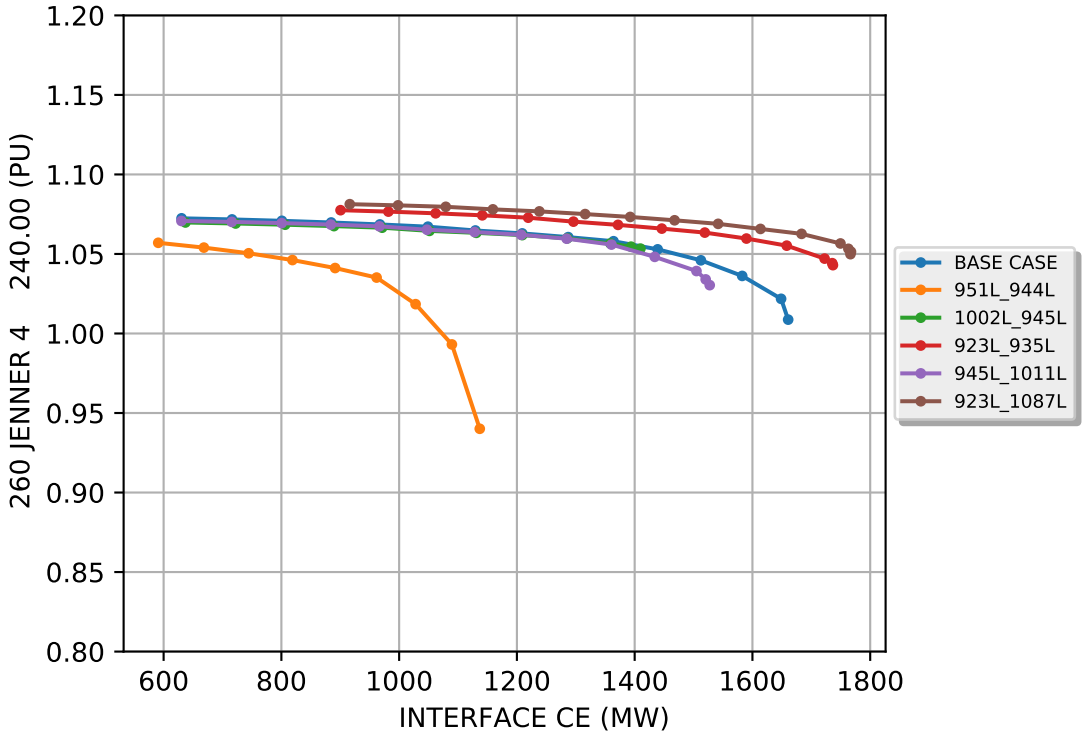


Figure: E-5-82

Case: H9, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 92.4%

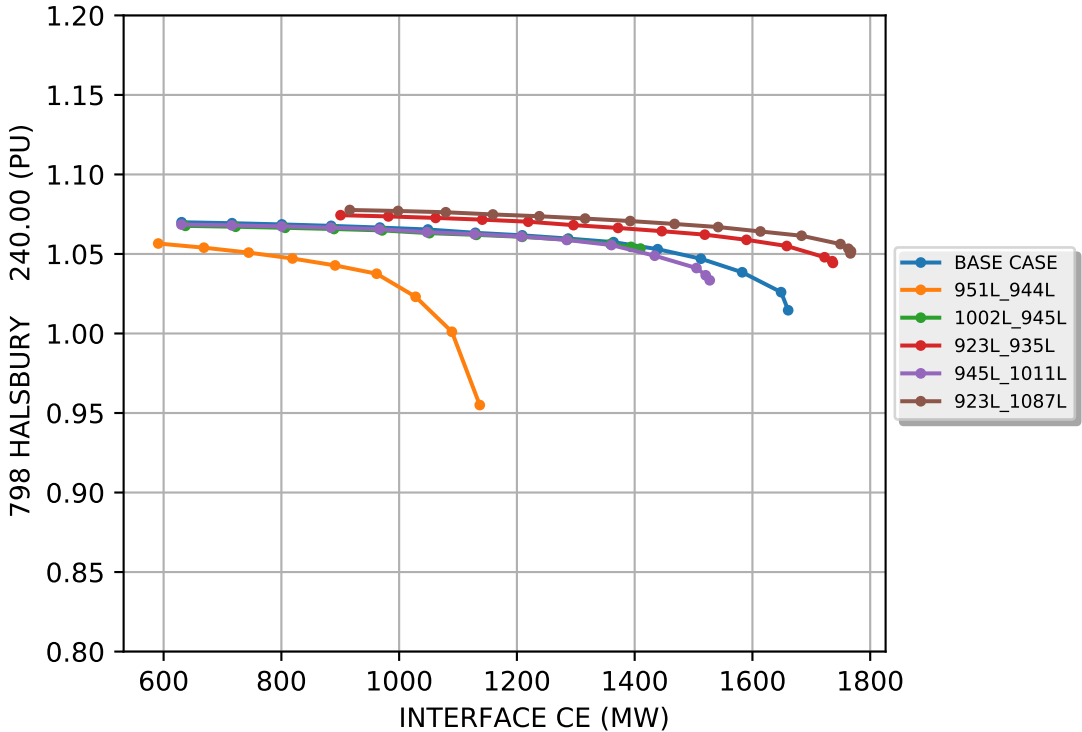


Figure: E-5-83

Case: H9, Option: BOTH

Min Voltage: 1.01 PU, Min Margin: 92.4%

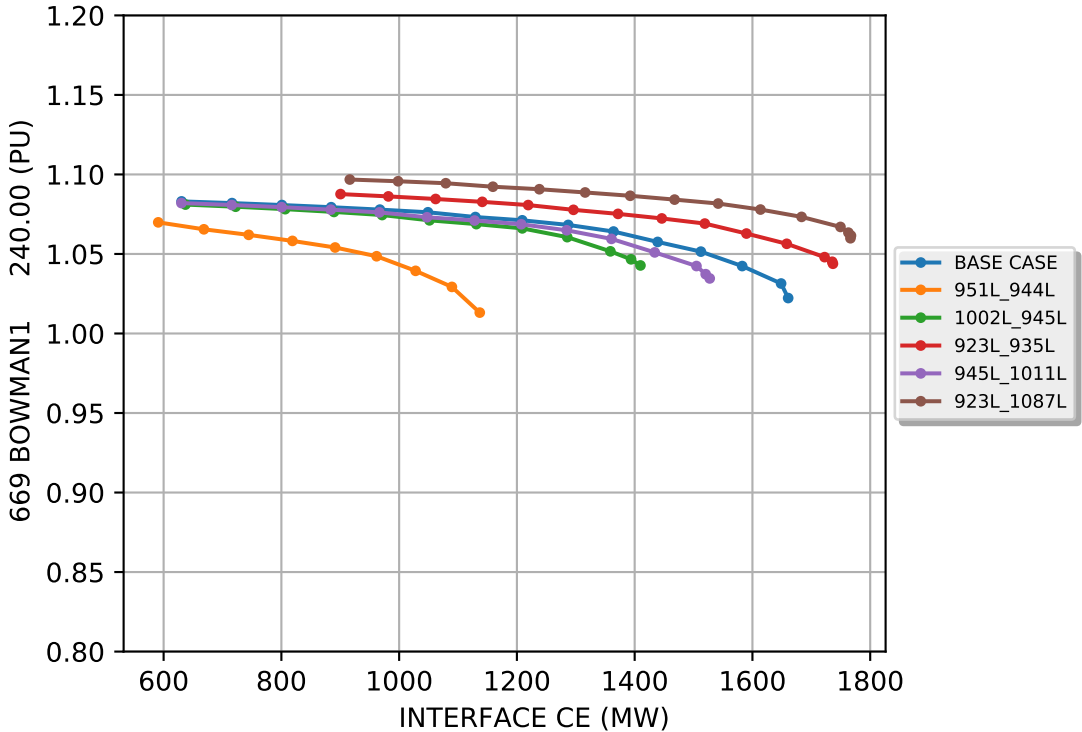


Figure: E-5-84

Case: H9, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 92.4%

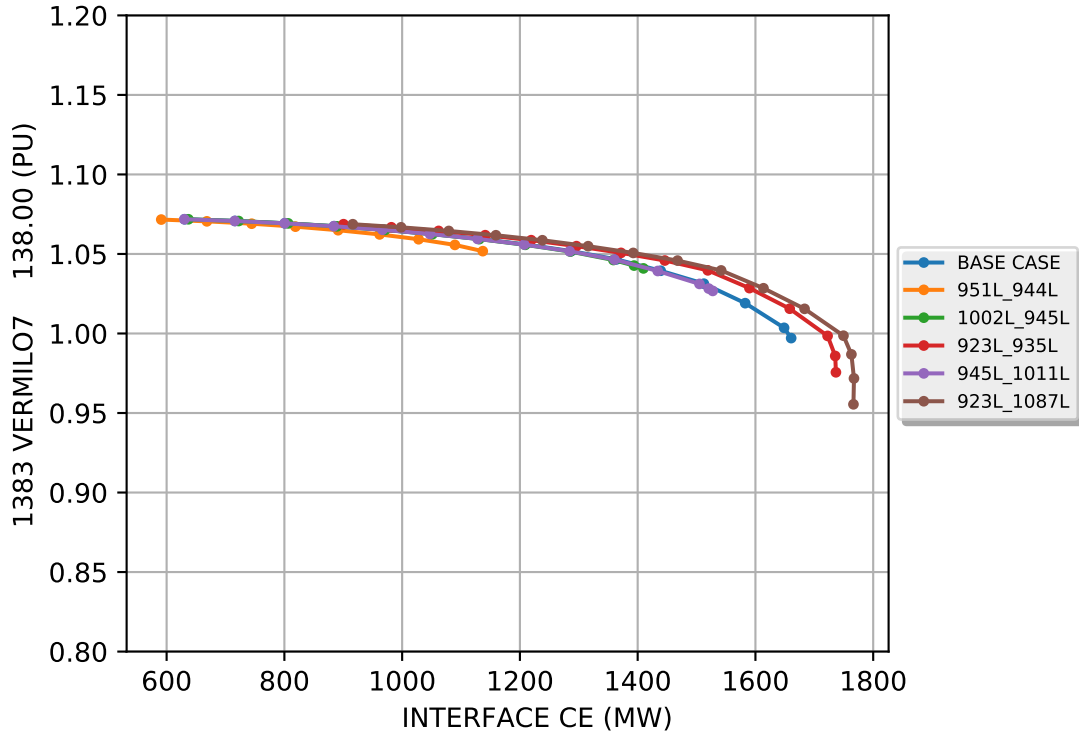


Figure: E-5-85

Case: H9, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 92.4%

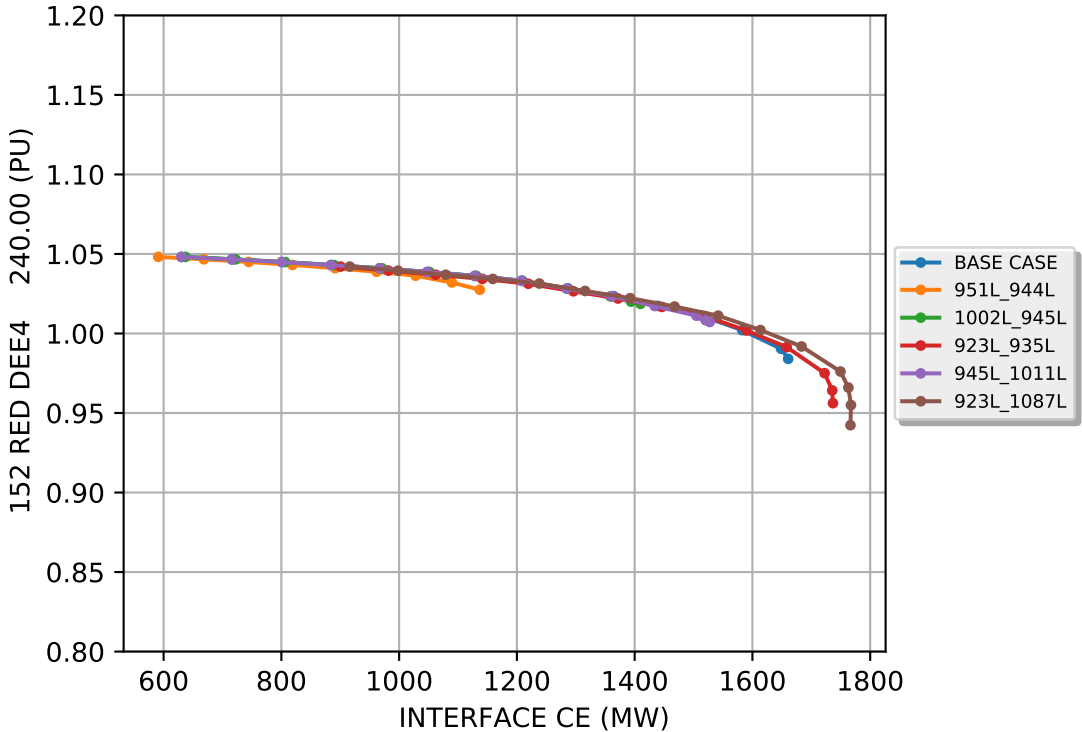


Figure: E-5-86

Case: M9, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 54.0%

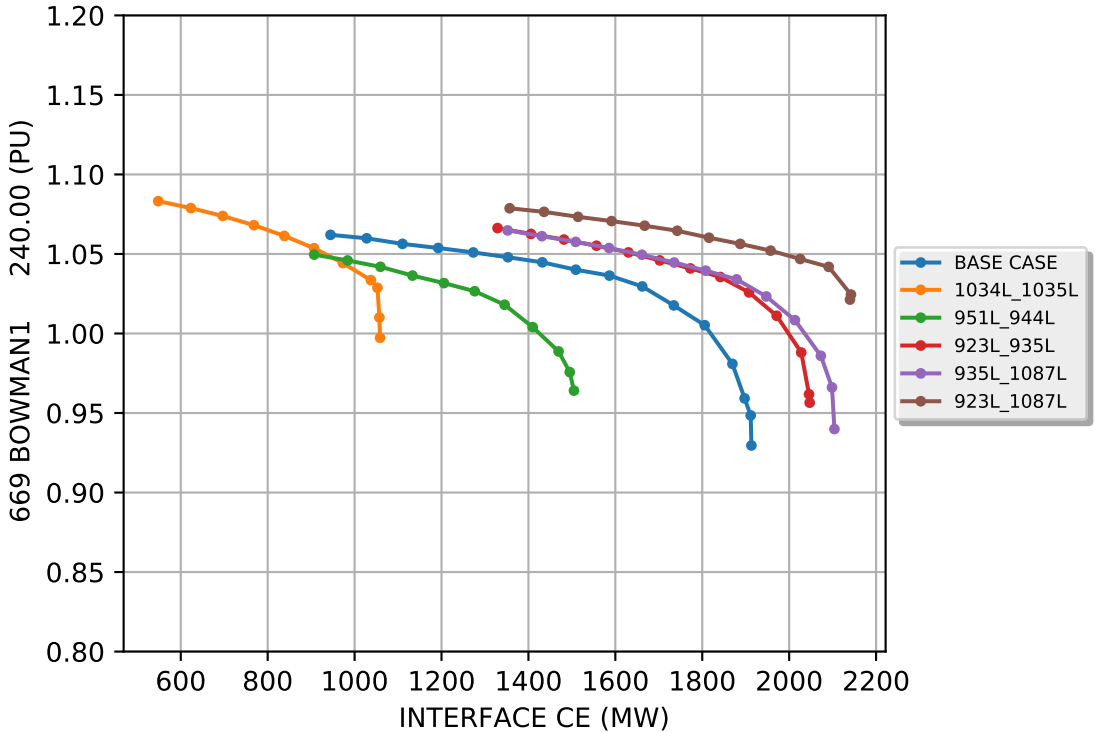


Figure: E-5-87

Case: M9, Option: BOTH

Min Voltage: 0.86 PU, Min Margin: 54.0%

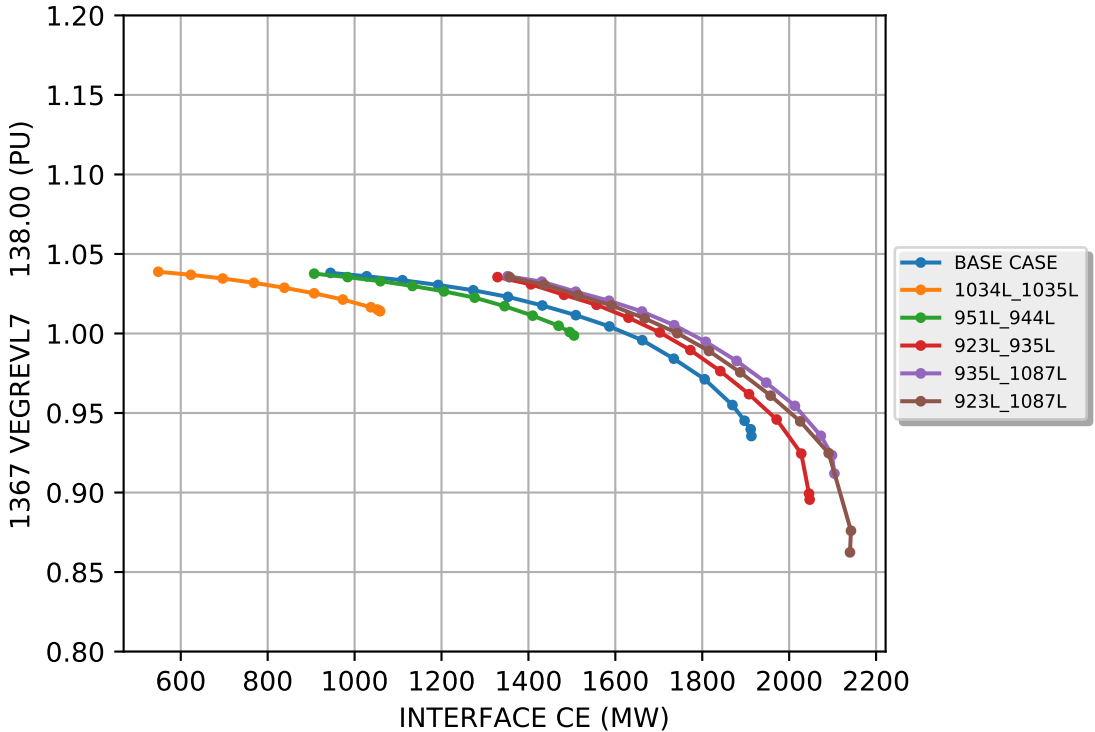


Figure: E-5-88

Case: M9, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 54.0%

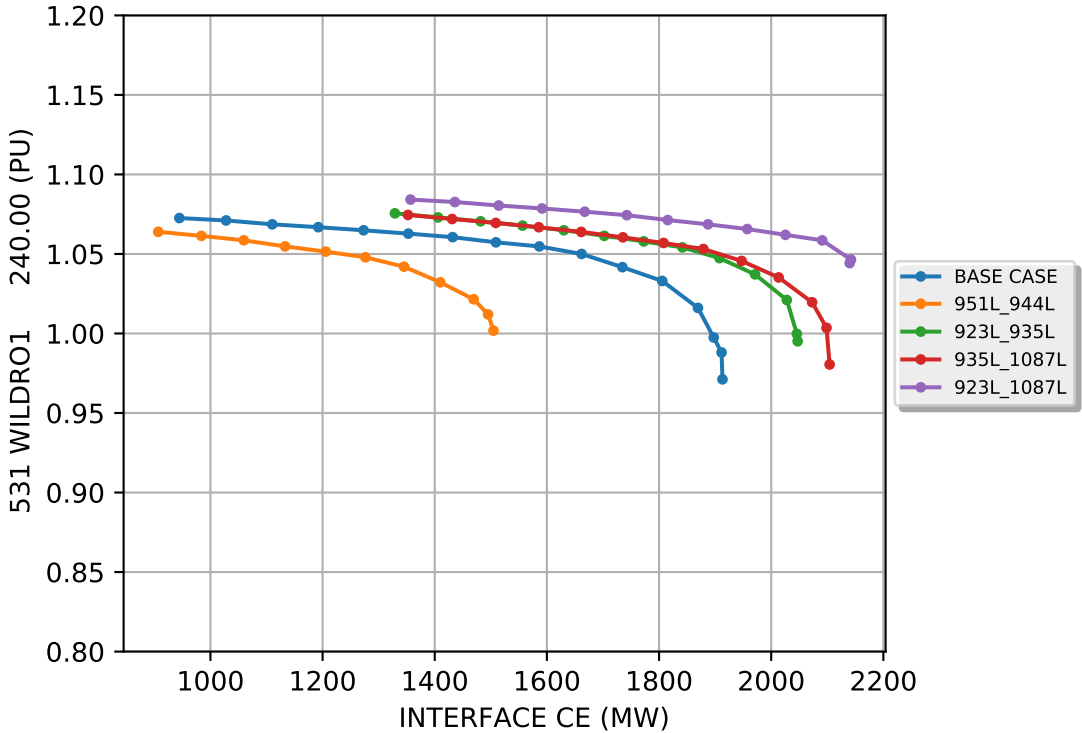


Figure: E-5-89

Case: M9, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 54.0%

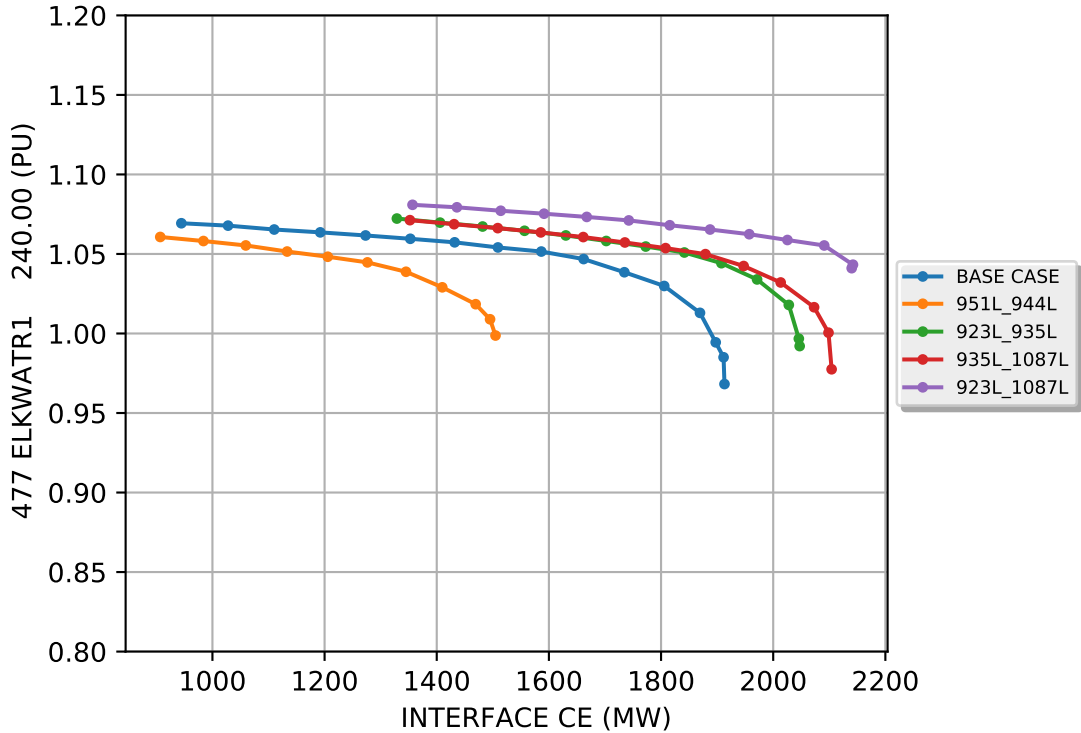


Figure: E-5-90

Case: M9, Option: BOTH

Min Voltage: 0.89 PU, Min Margin: 54.0%

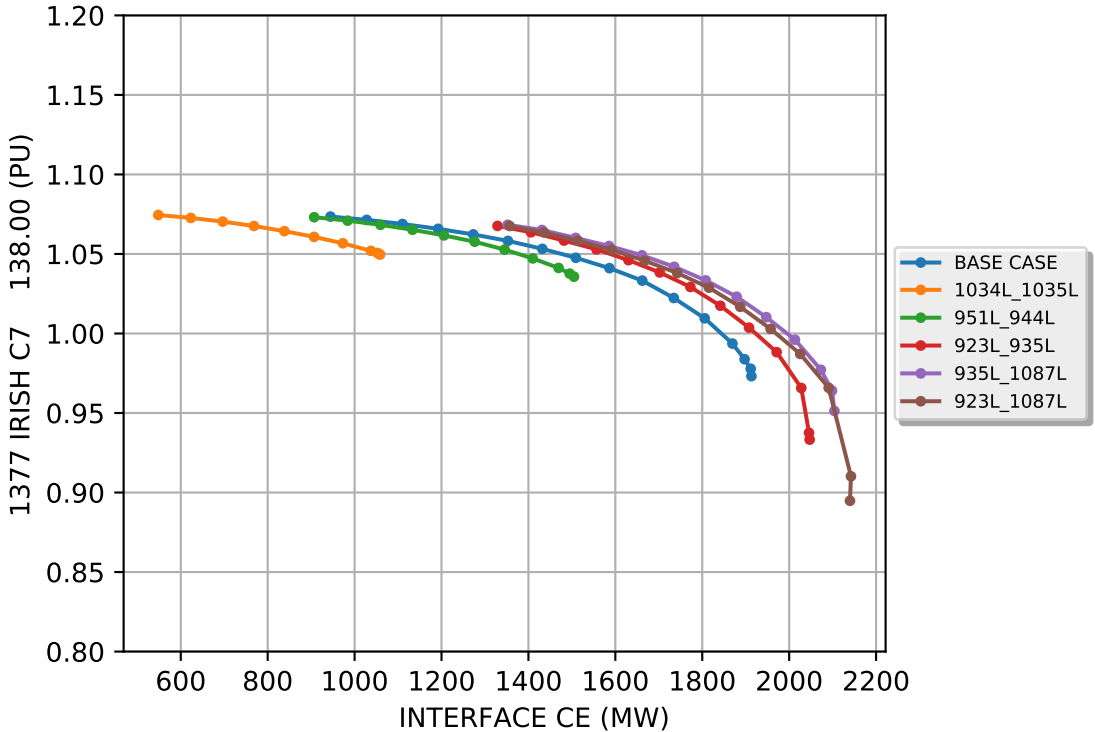


Figure: E-5-91

Case: M9, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 54.0%

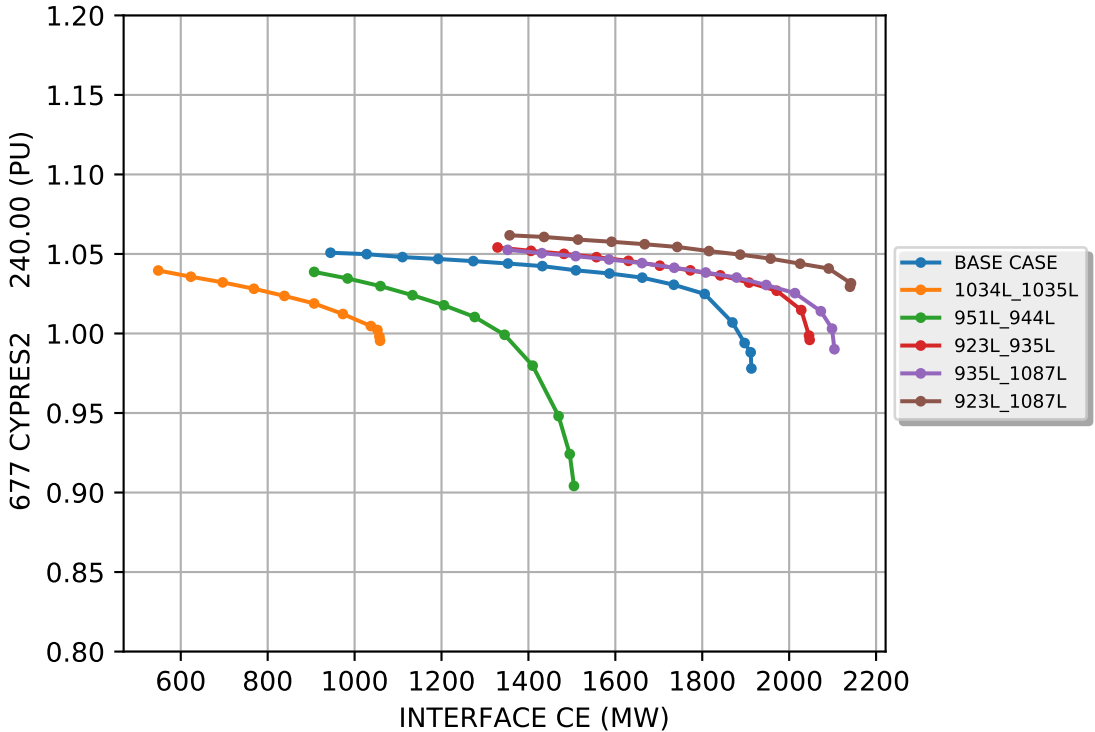


Figure: E-5-92

Case: M9, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 54.0%

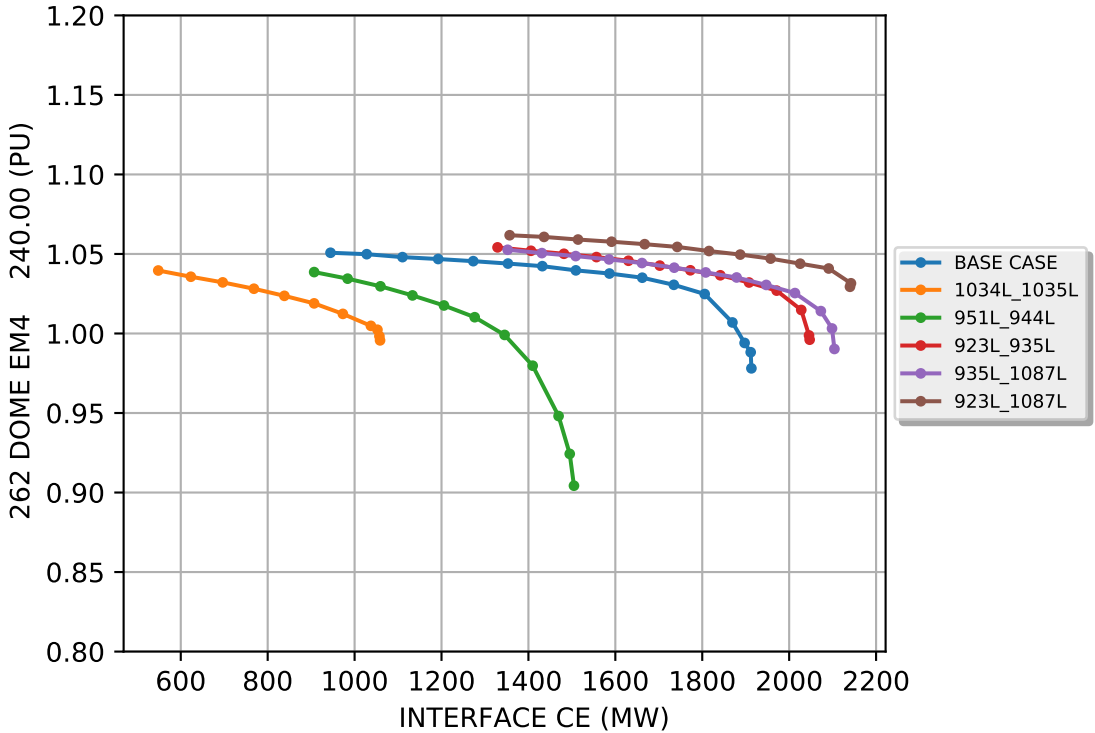


Figure: E-5-93

Case: M9, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 54.0%

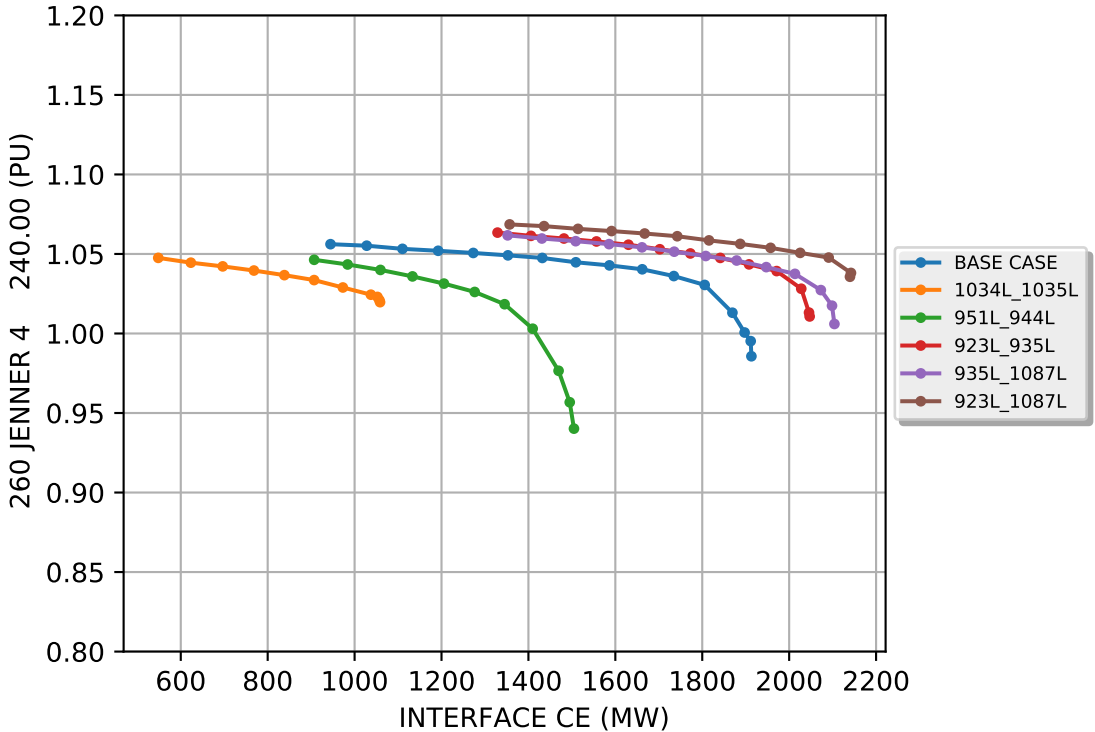


Figure: E-5-94

Case: M9, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 54.0%

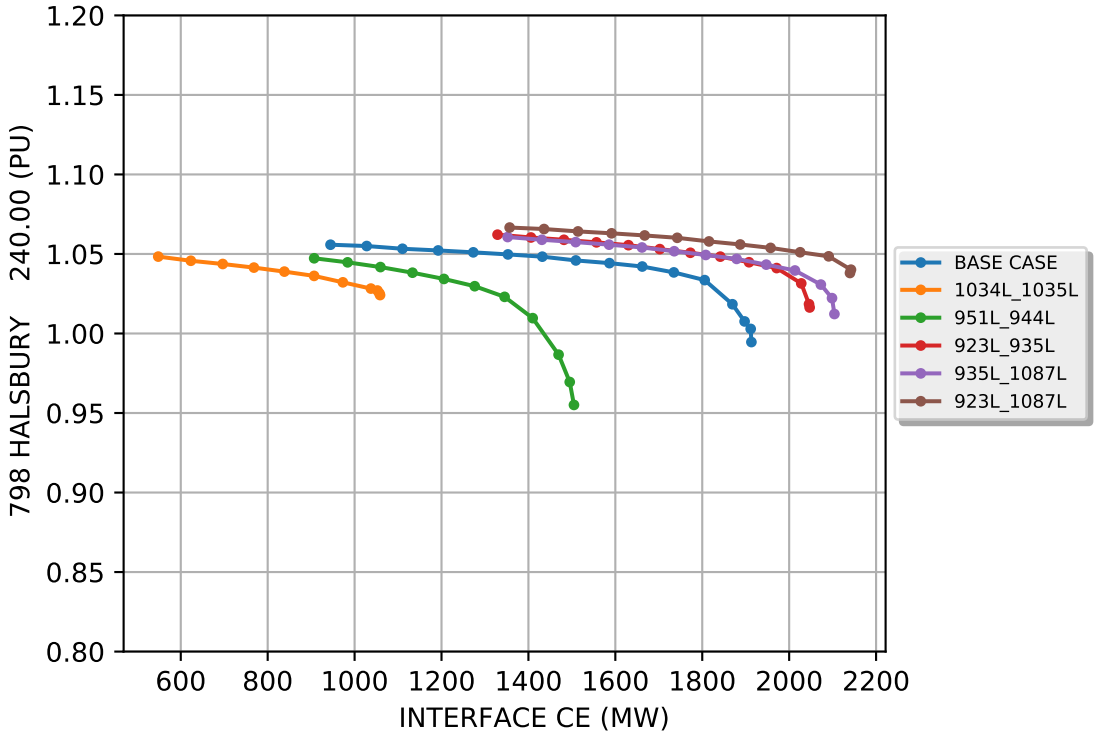


Figure: E-5-95

Case: M9, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 54.0%

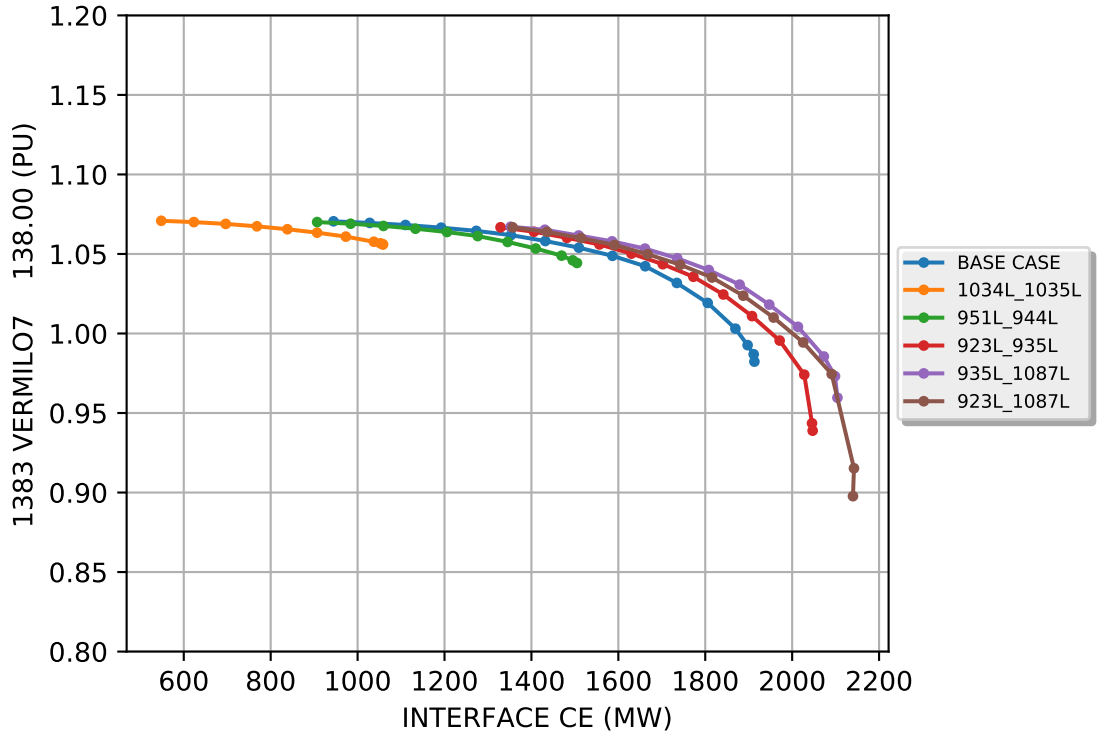


Figure: E-5-96

Case: M9, Option: BOTH

Min Voltage: 0.88 PU, Min Margin: 54.0%

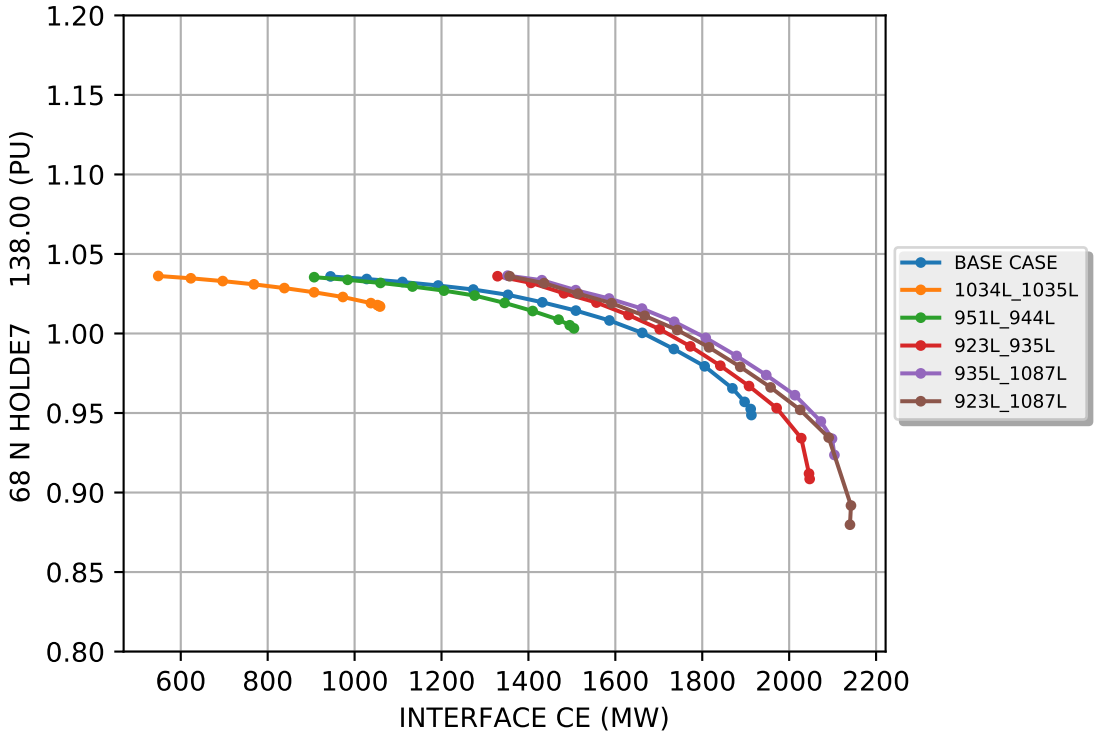


Figure: E-5-97

Case: M9, Option: BOTH

Min Voltage: 0.87 PU, Min Margin: 54.0%

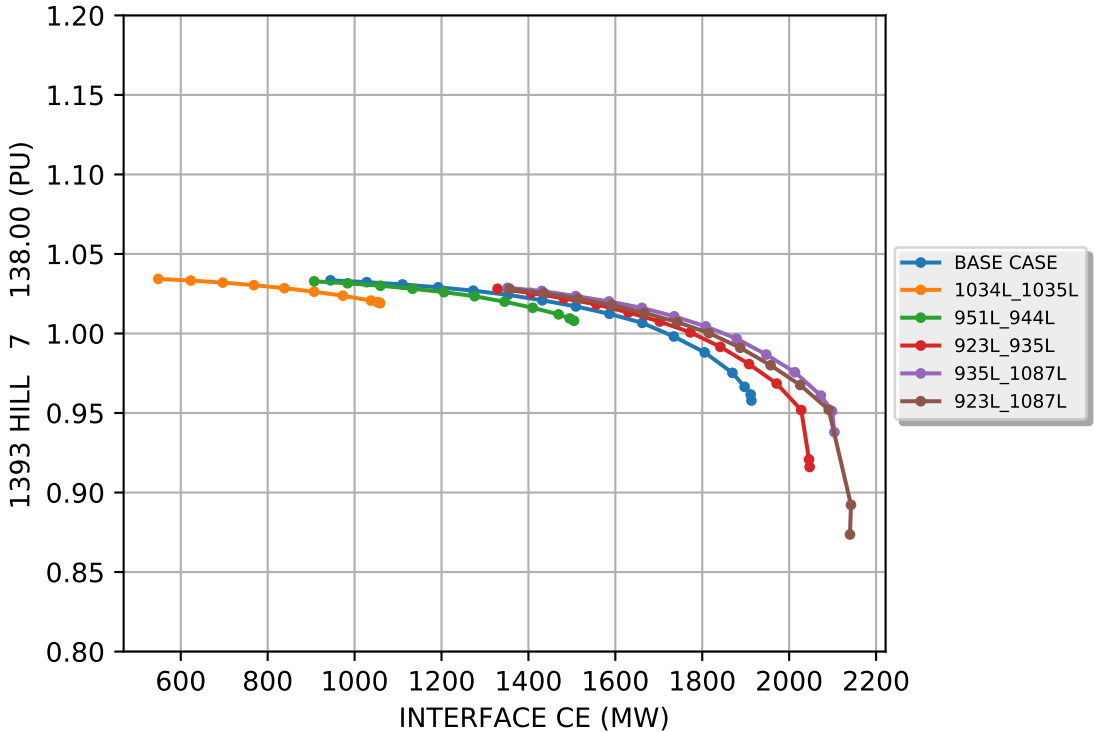


Figure: E-5-98

Case: H10, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 75.4%

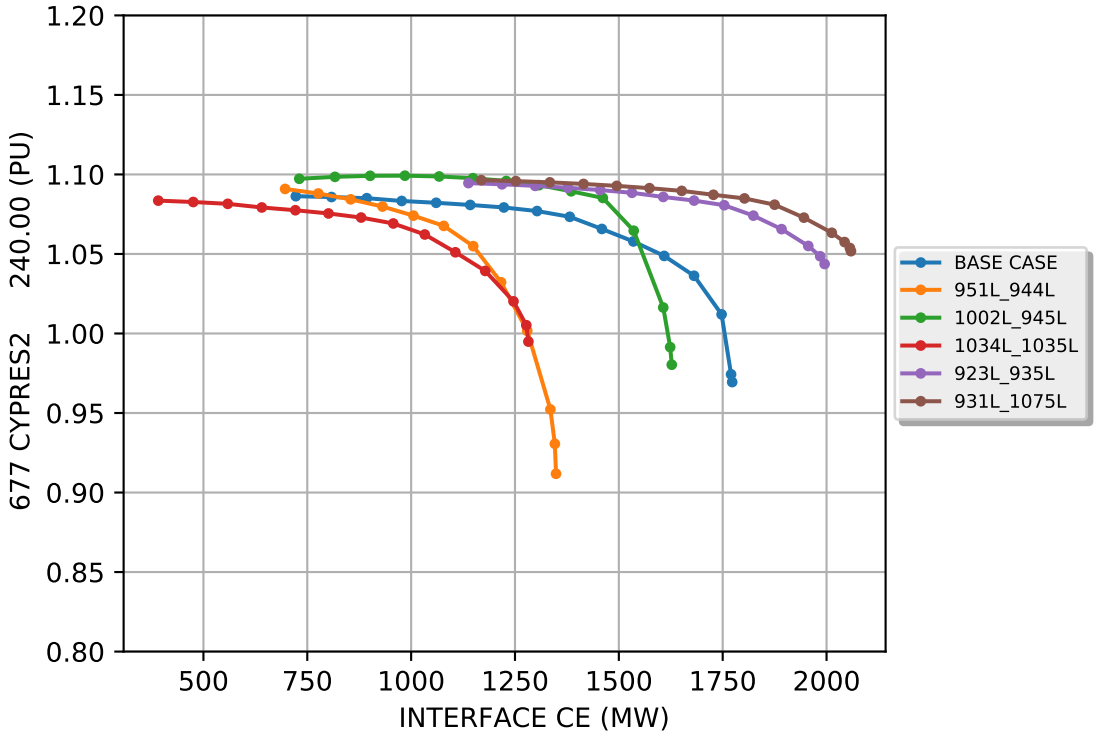


Figure: E-5-99

Case: H10, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 75.4%

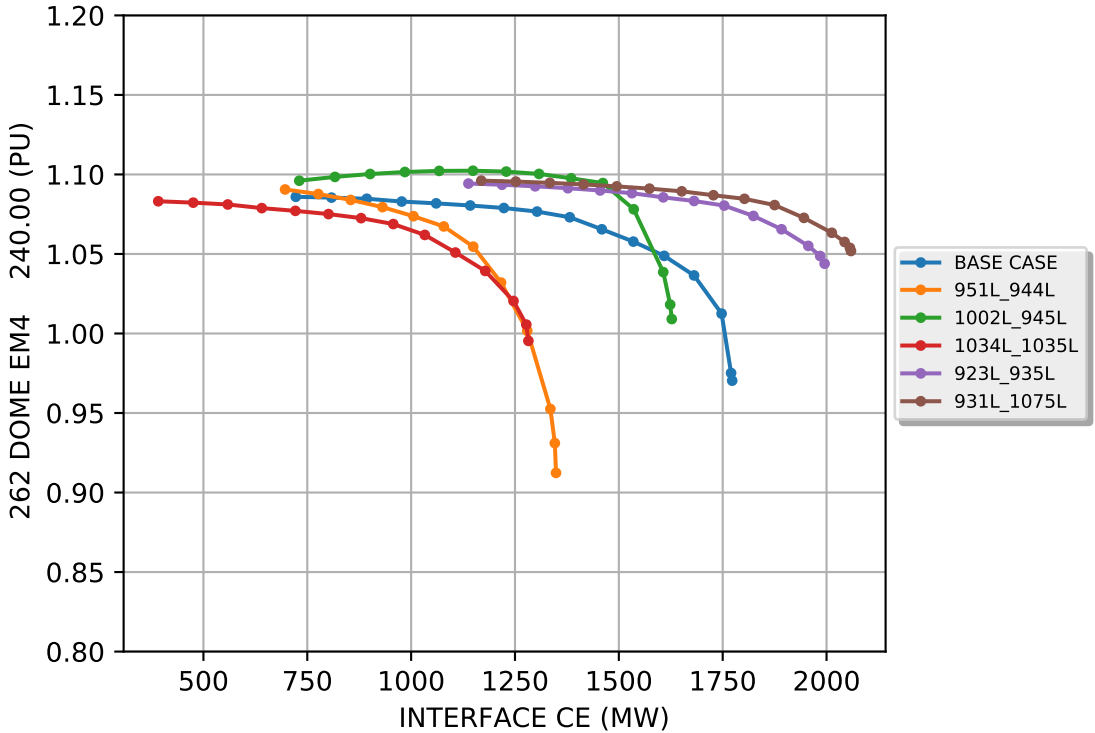


Figure: E-5-100

Case: H10, Option: BOTH

Min Voltage: 0.89 PU, Min Margin: 75.4%

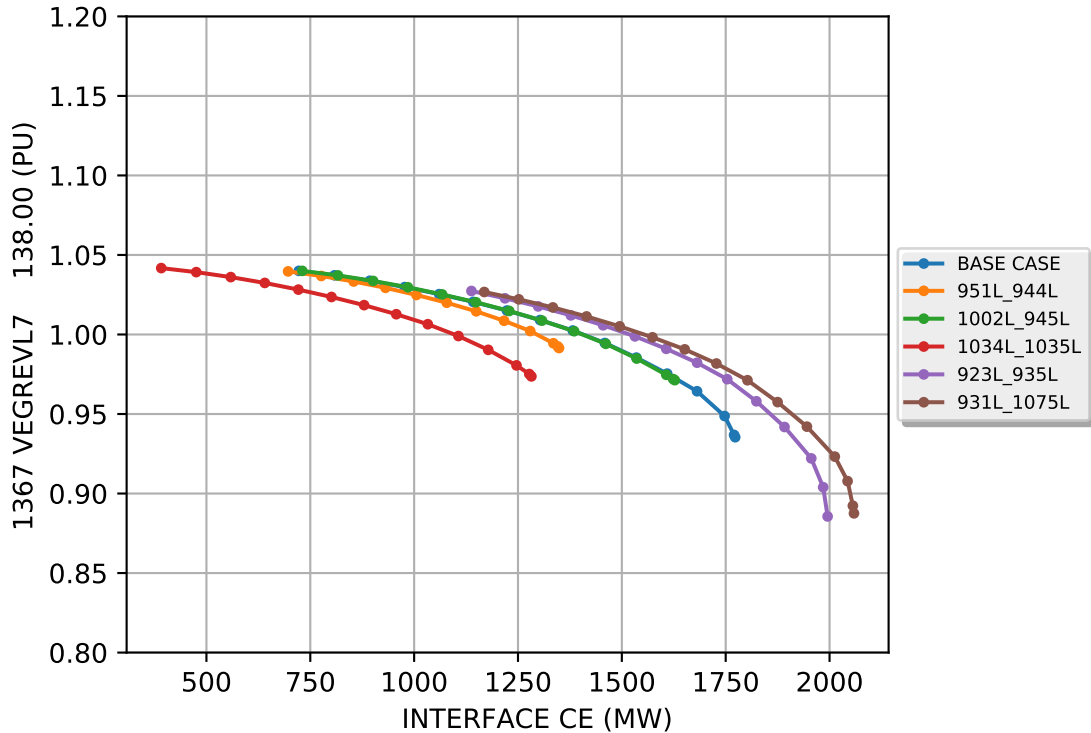


Figure: E-5-101

Case: H10, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 75.4%

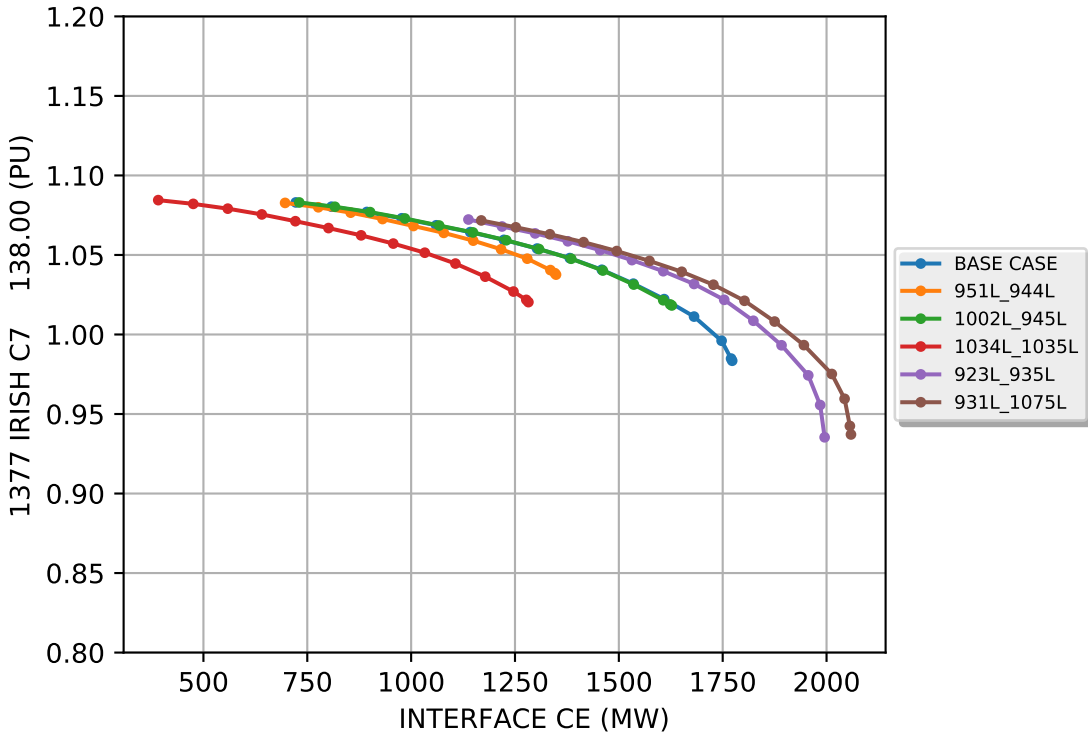


Figure: E-5-102

Case: H10, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 75.4%

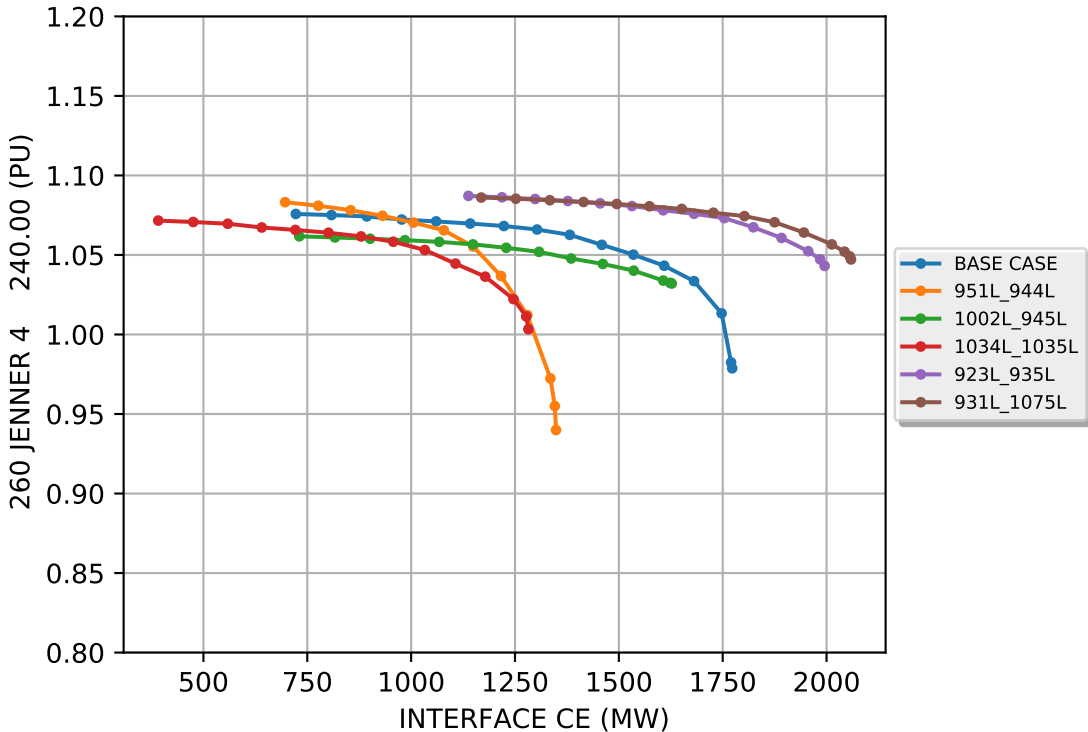


Figure: E-5-103

Case: H10, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 75.4%

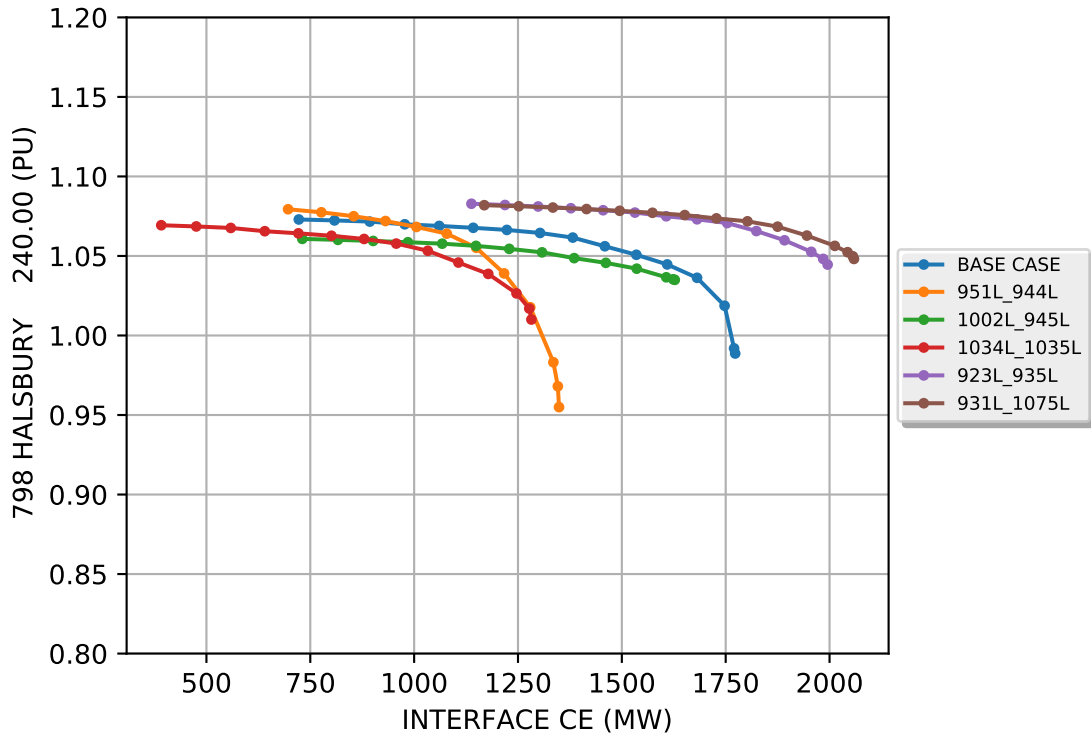


Figure: E-5-104

Case: H10, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 75.4%

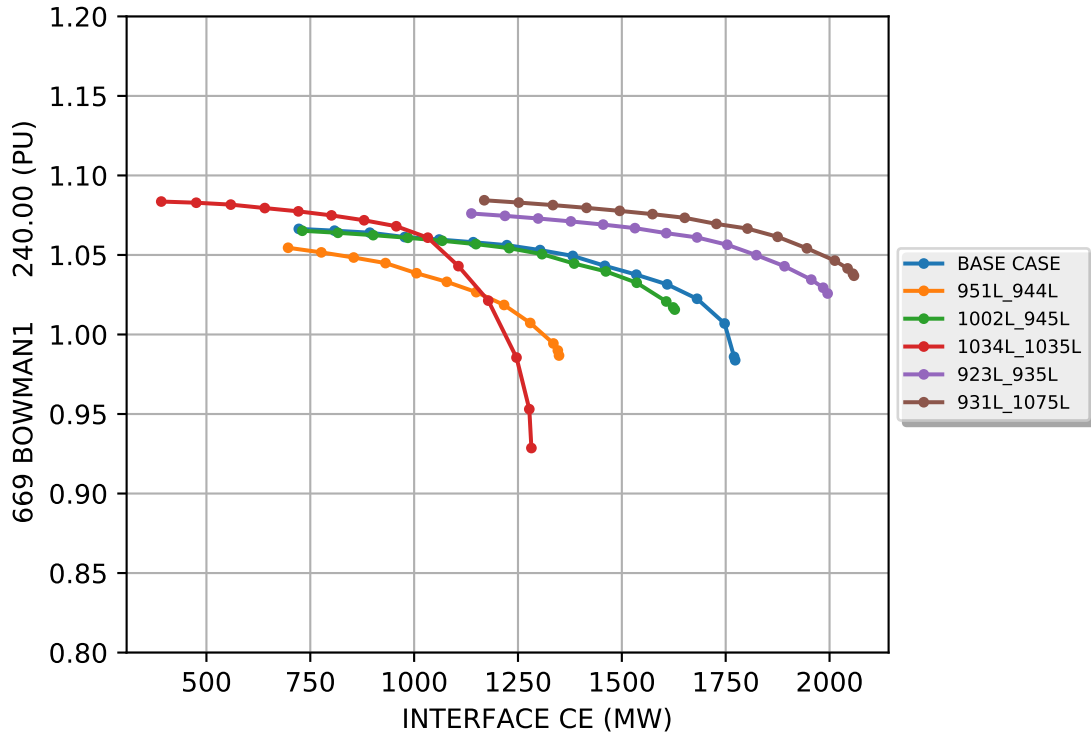


Figure: E-5-105

Case: H10, Option: BOTH

Min Voltage: 0.89 PU, Min Margin: 75.4%

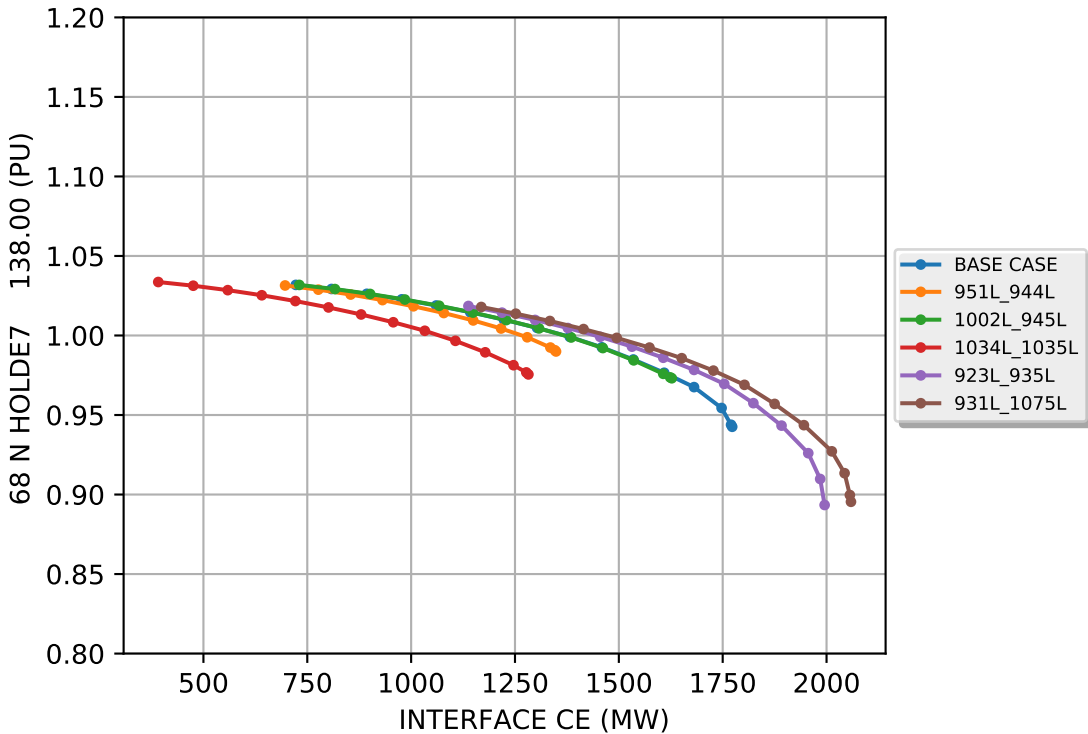


Figure: E-5-106

Case: H10, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 75.4%

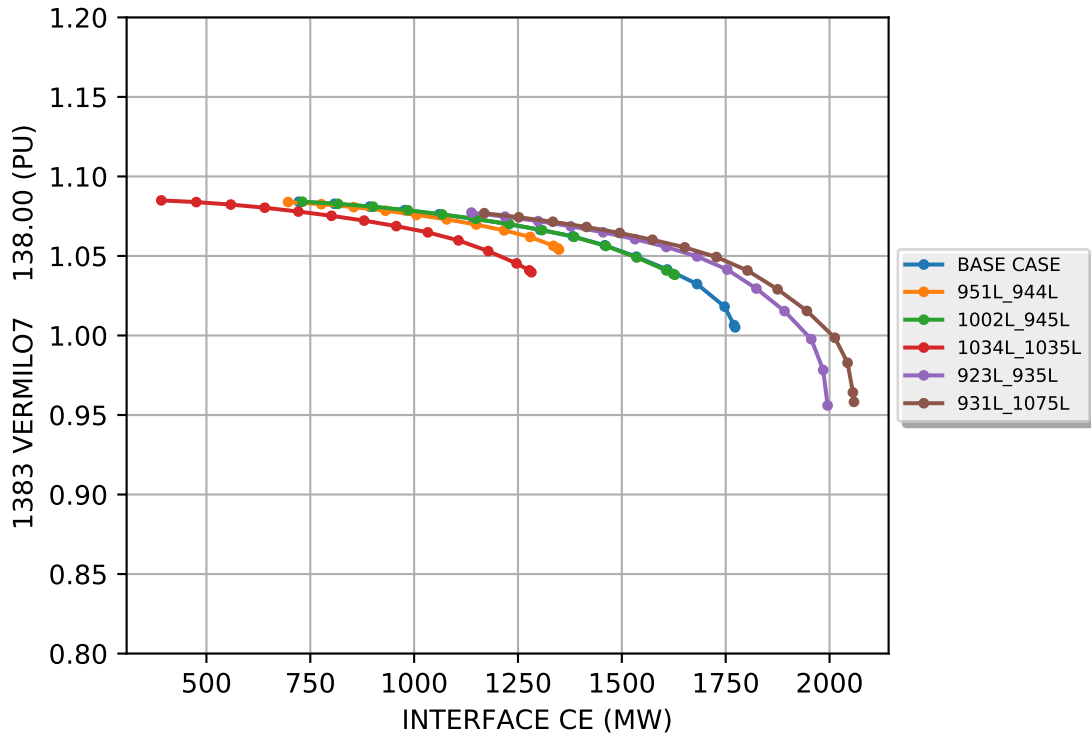


Figure: E-5-107

Case: H10, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 75.4%

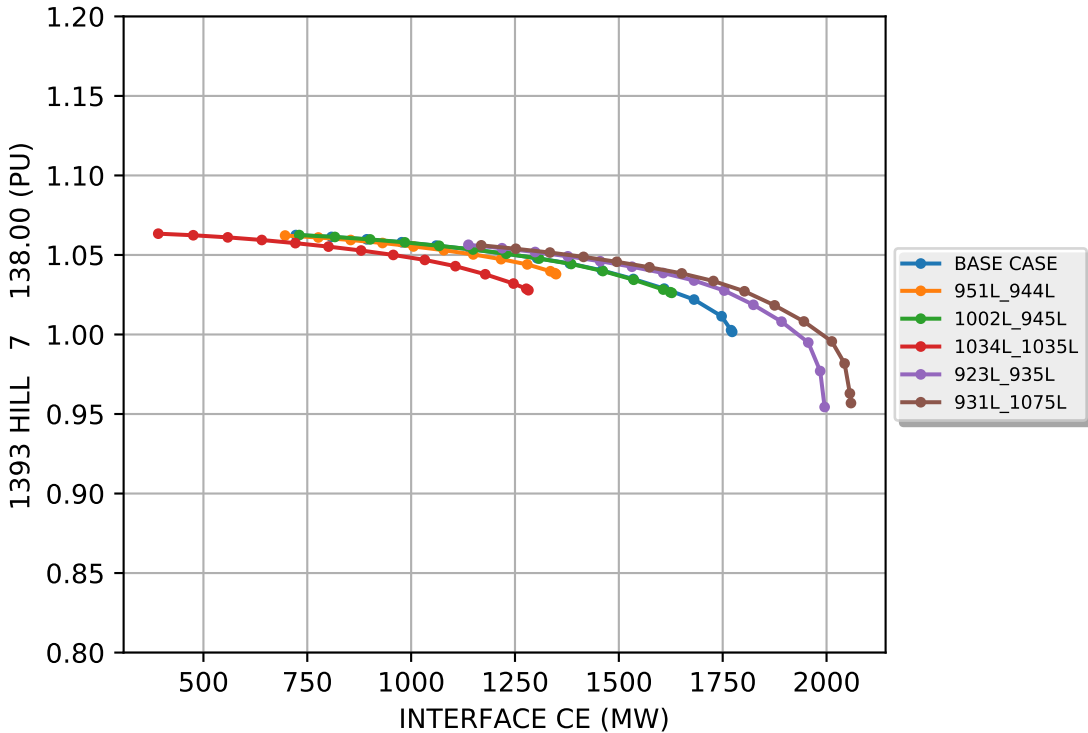


Figure: E-5-108

Case: H11, Option: BOTH

Min Voltage: 0.88 PU, Min Margin: 48.1%

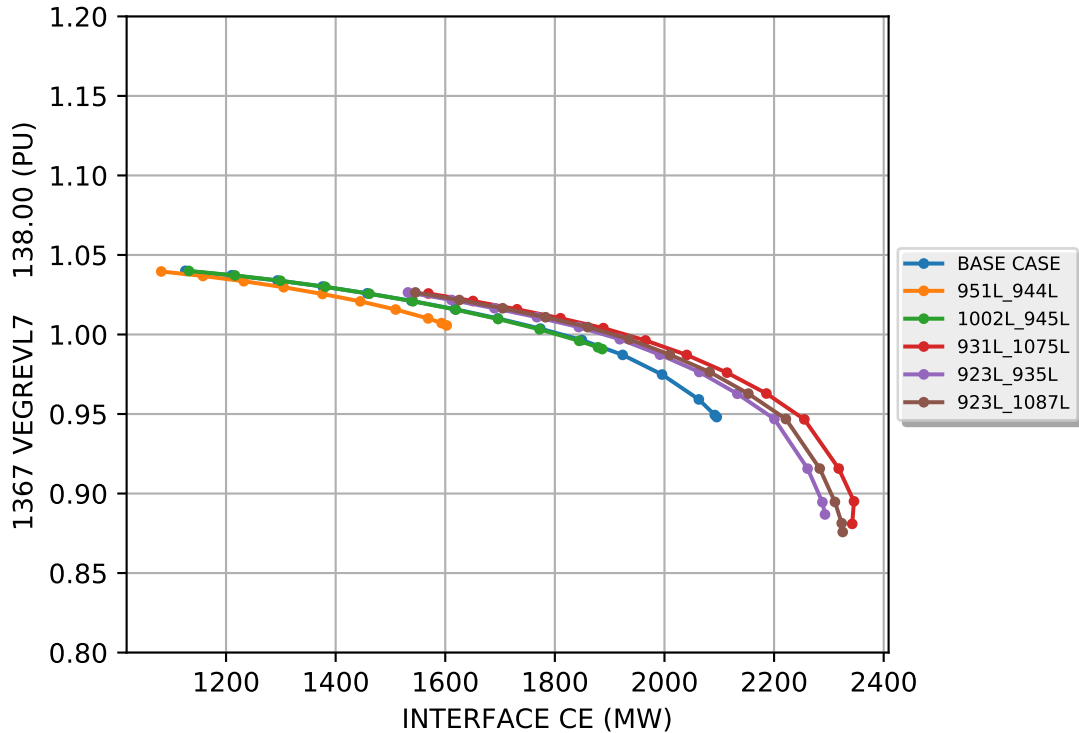


Figure: E-5-109

Case: H11, Option: BOTH

Min Voltage: 0.88 PU, Min Margin: 48.1%

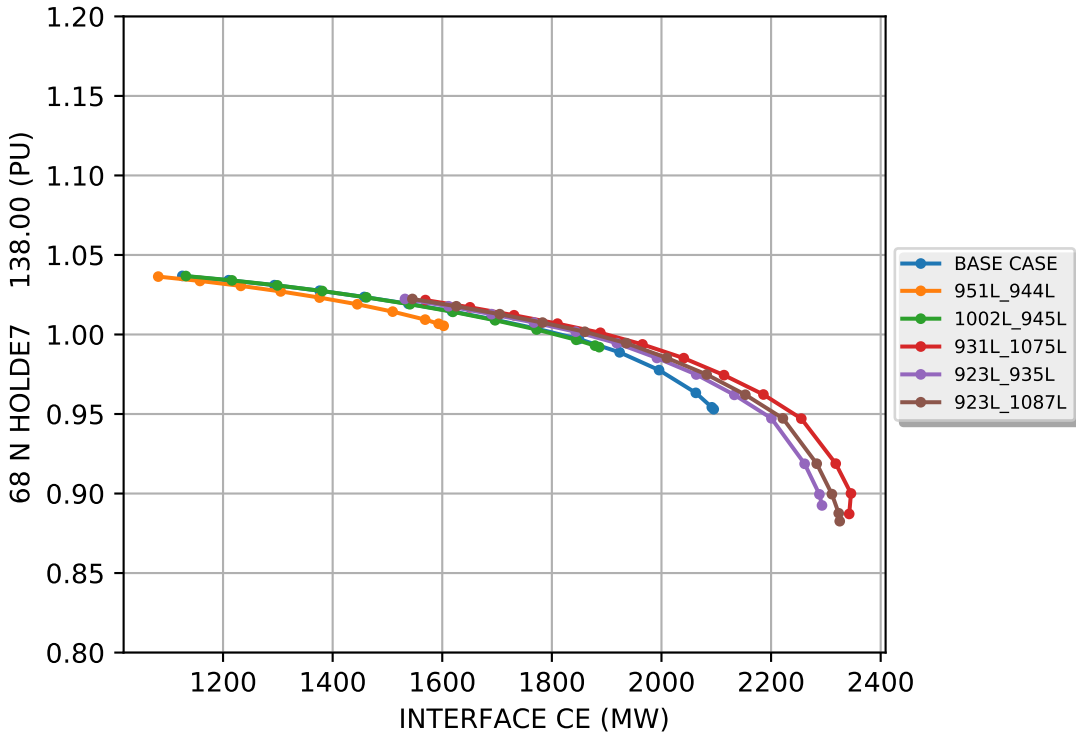


Figure: E-5-110

Case: H11, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 48.1%

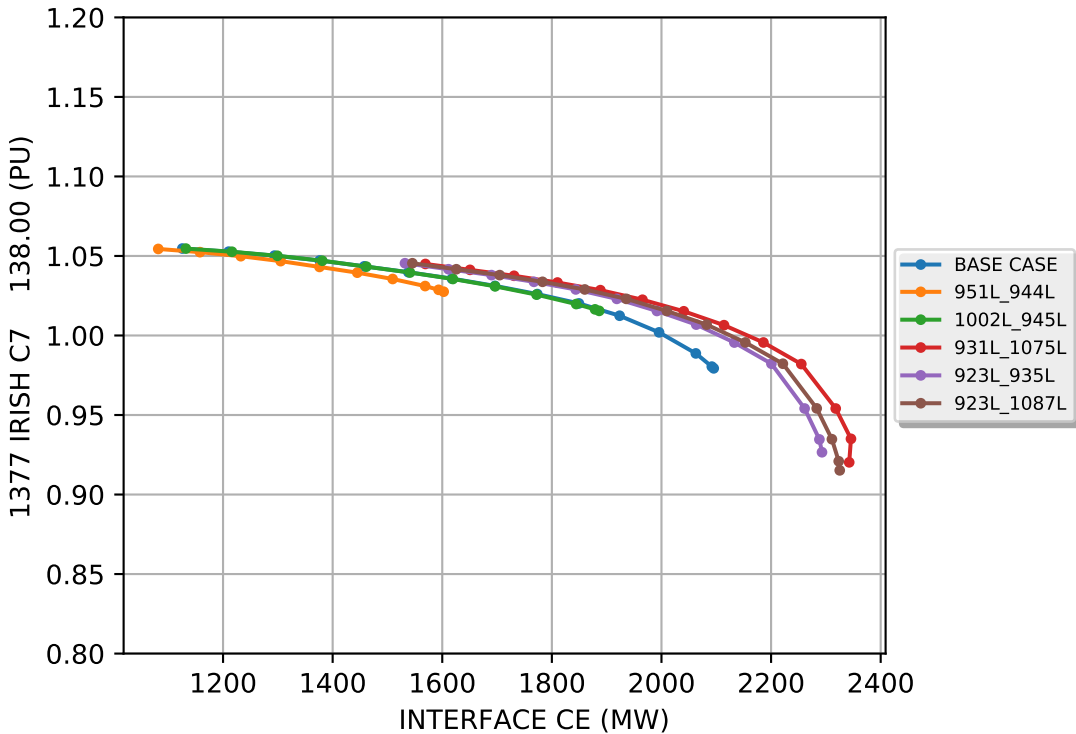


Figure: E-5-111

Case: H11, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 48.1%

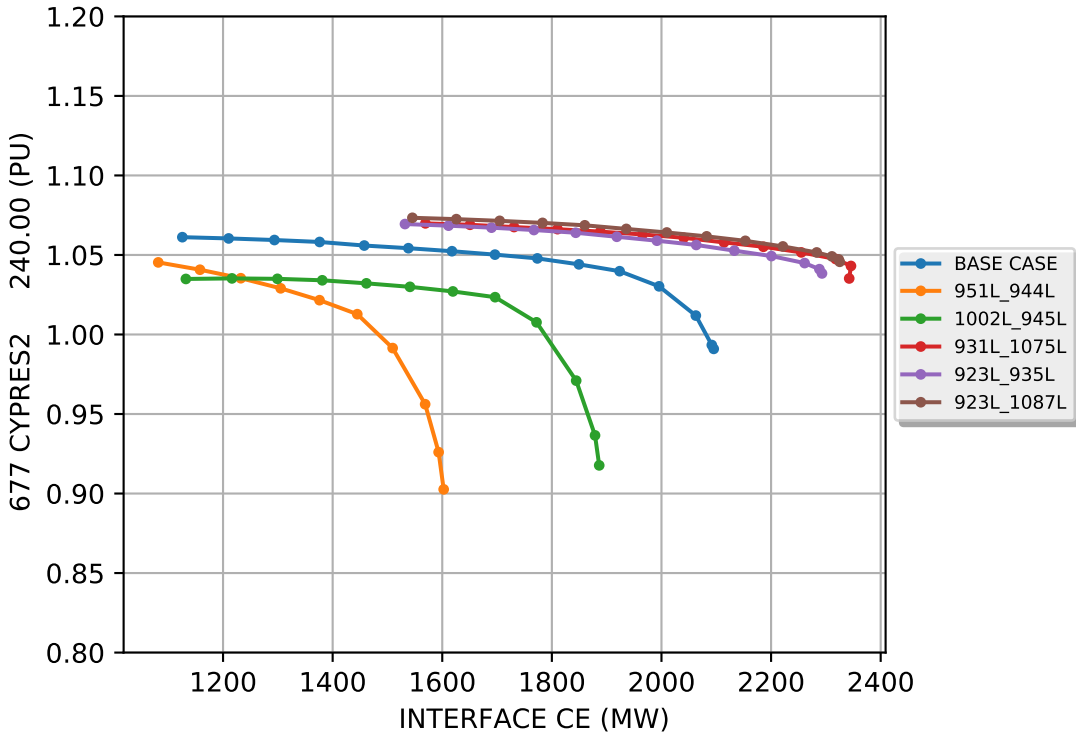


Figure: E-5-112

Case: H11, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 48.1%

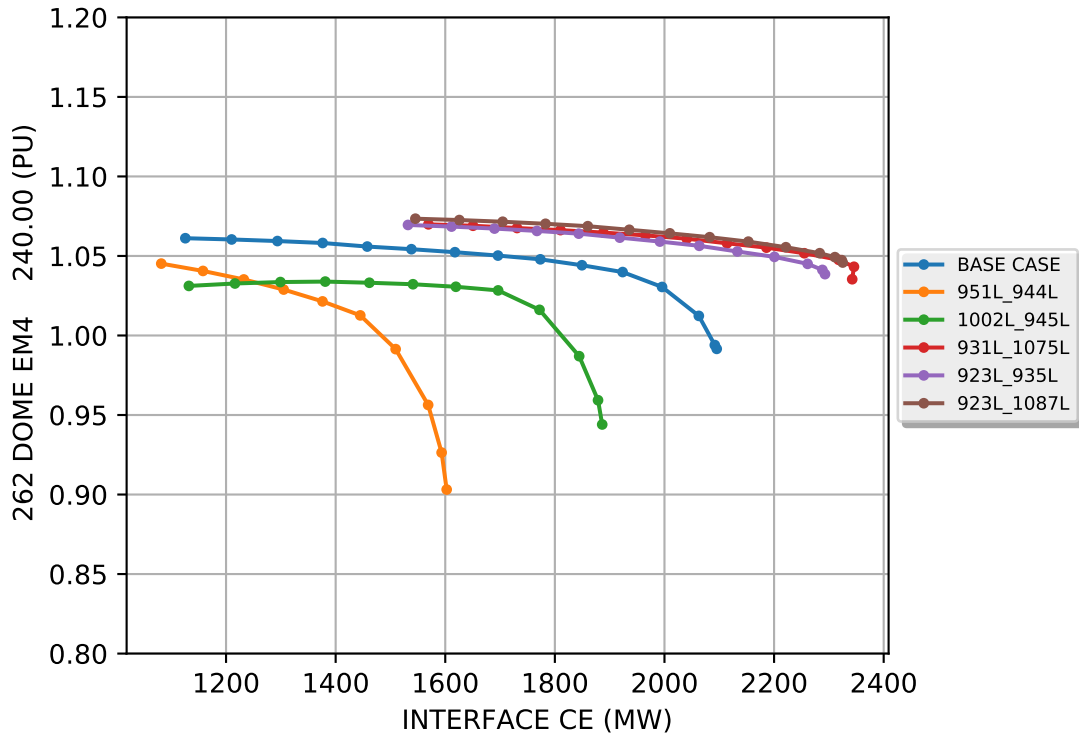


Figure: E-5-113

Case: H11, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 48.1%

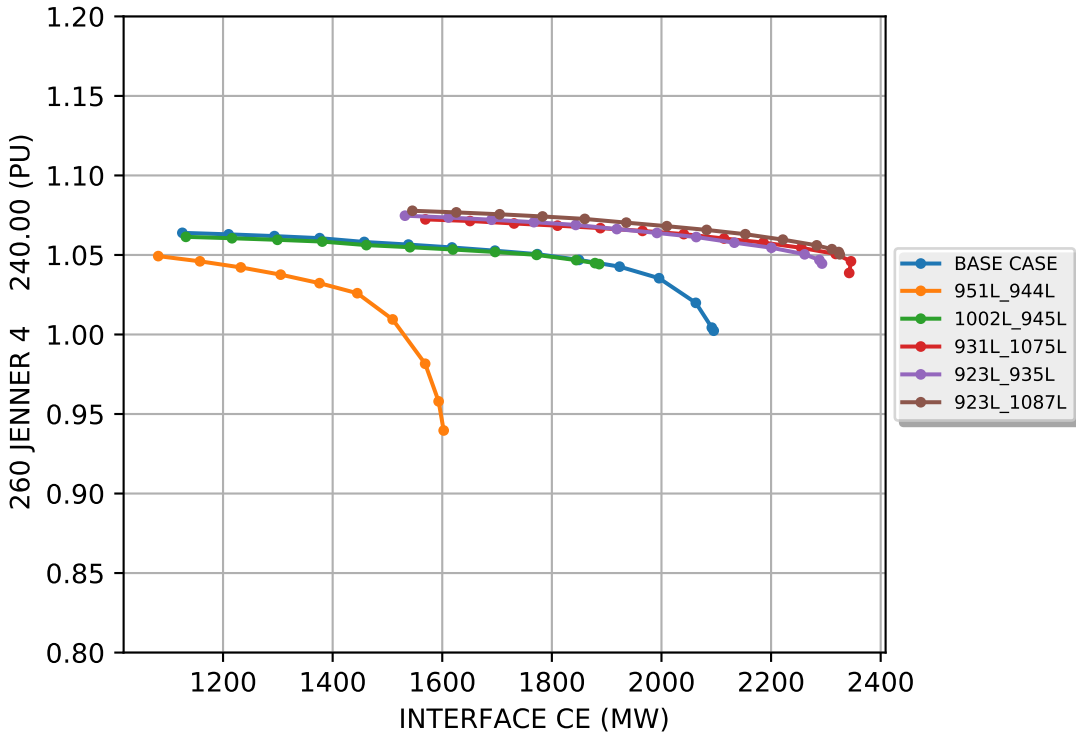


Figure: E-5-114

Case: H11, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 48.1%

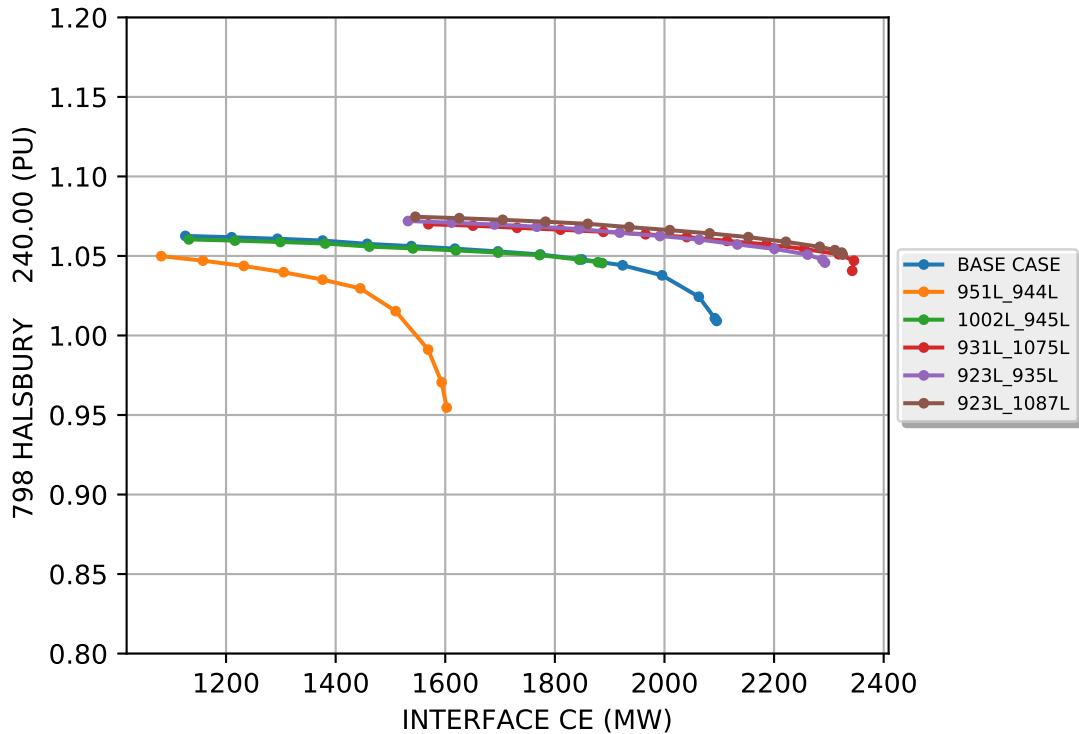


Figure: E-5-115

Case: H11, Option: BOTH

Min Voltage: 1.01 PU, Min Margin: 48.1%

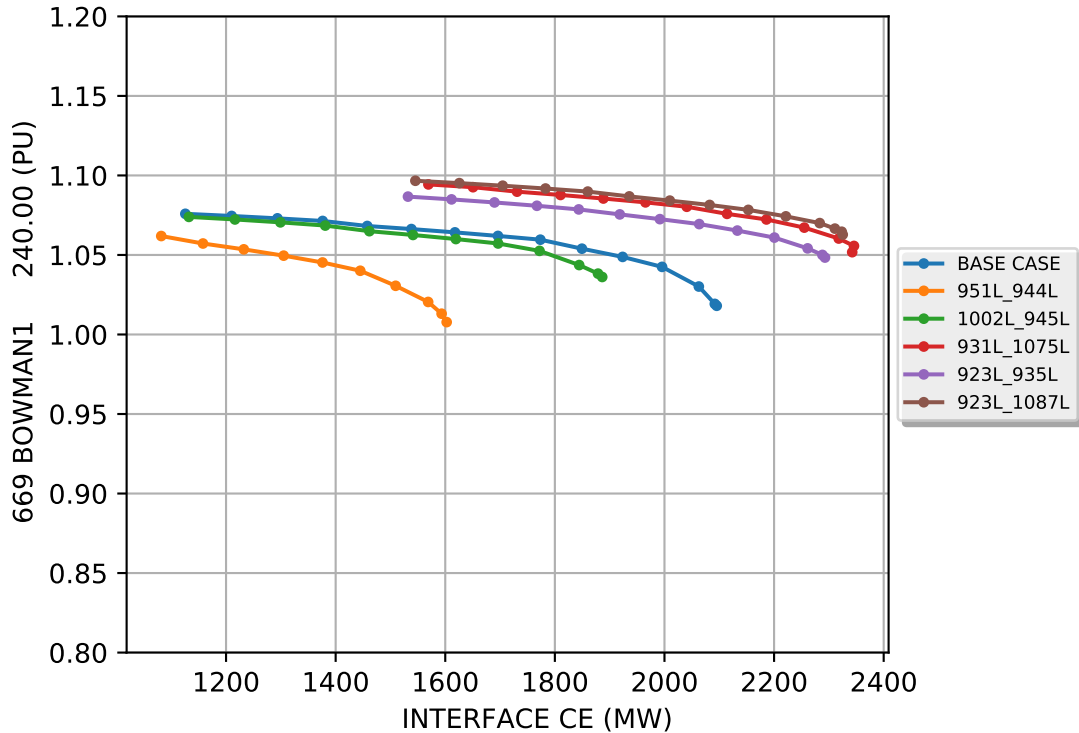


Figure: E-5-116

Case: H11, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 48.1%

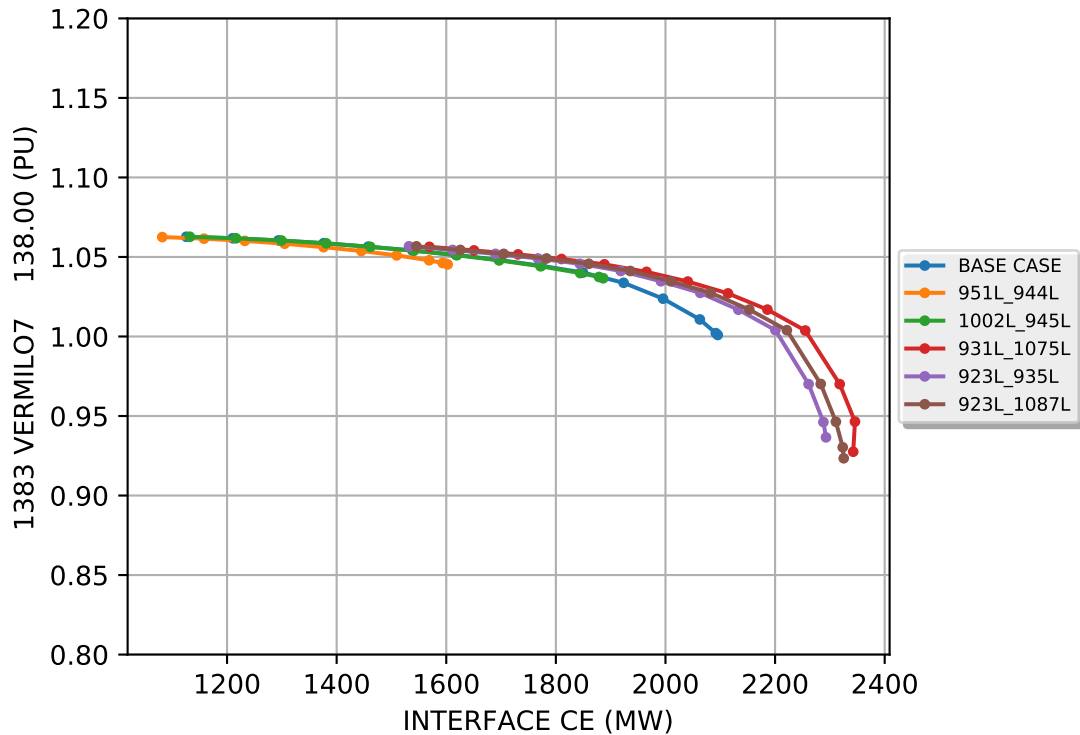


Figure: E-5-117

Case: H11, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 48.1%

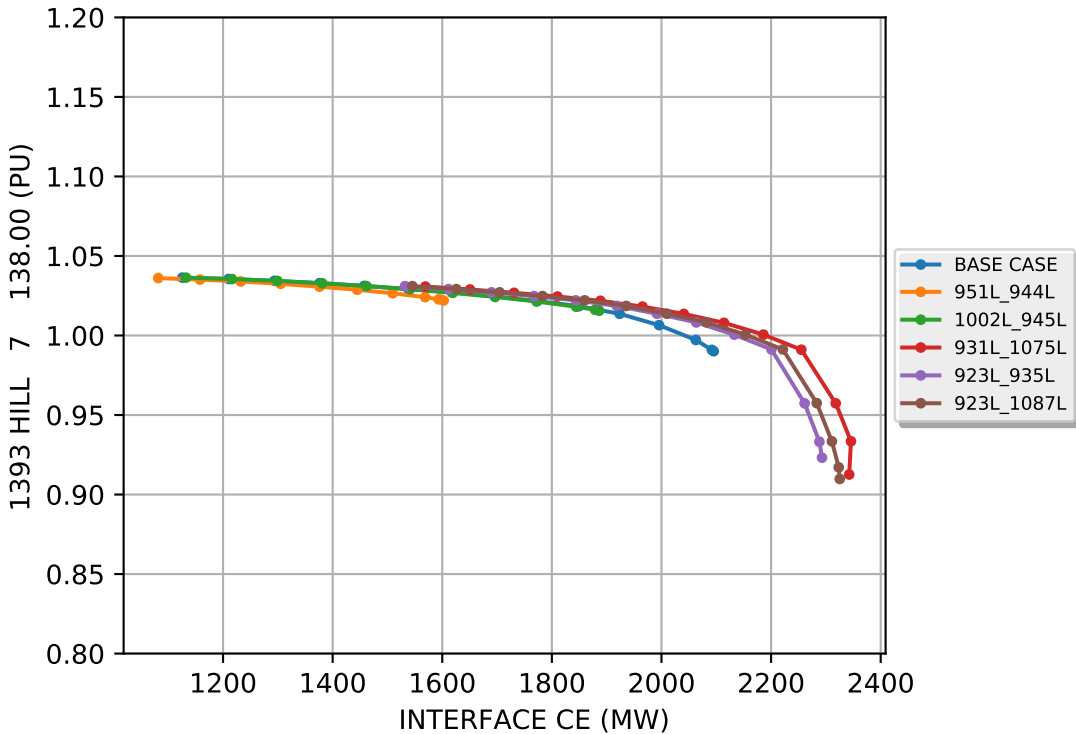


Figure: E-5-118

Case: M8, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 50.8%

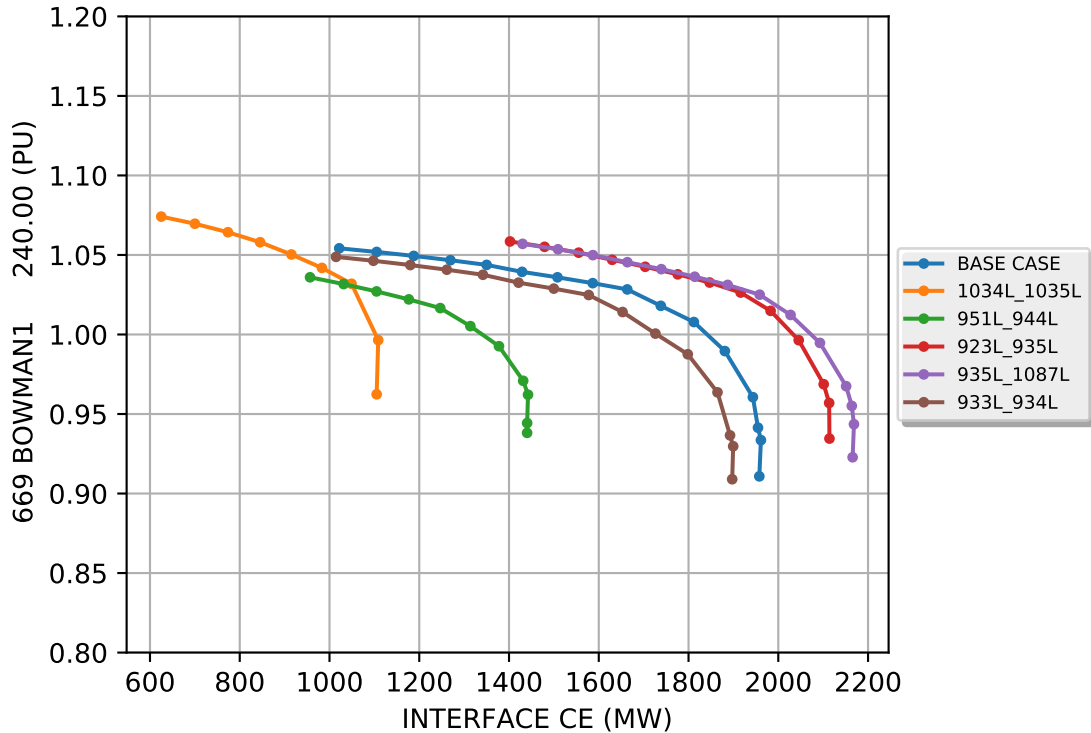


Figure: E-5-119

Case: M8, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 50.8%

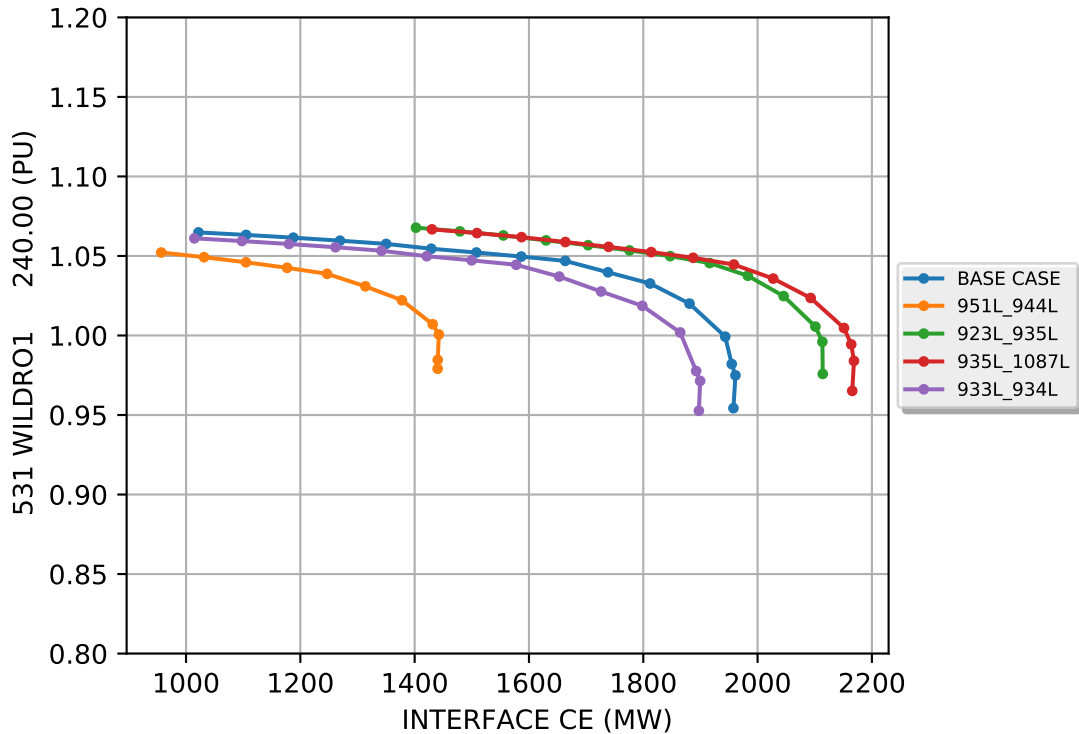


Figure: E-5-120

Case: M8, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 50.8%

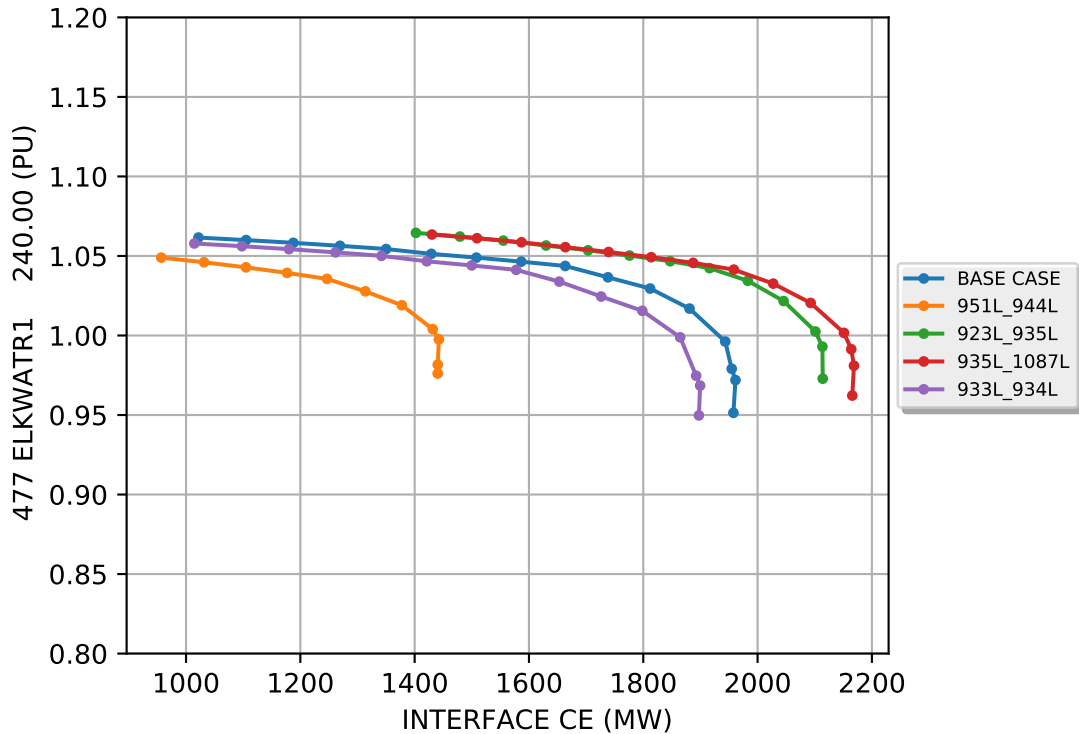


Figure: E-5-121

Case: M8, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 50.8%

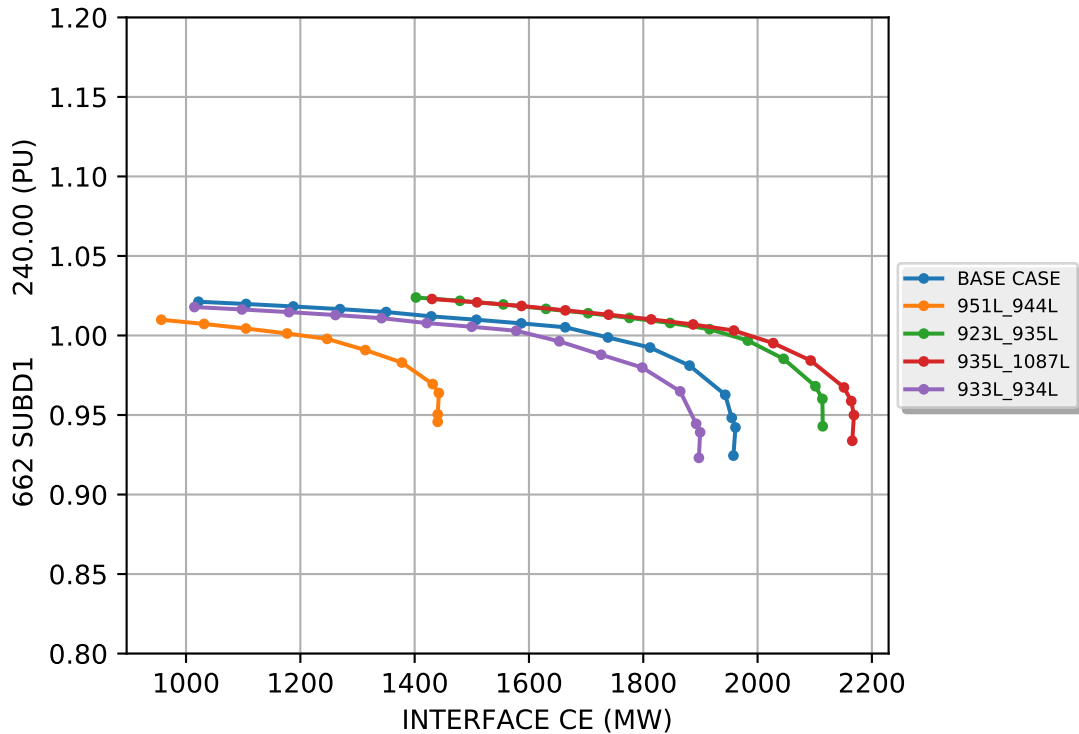


Figure: E-5-123

Case: M8, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 50.8%

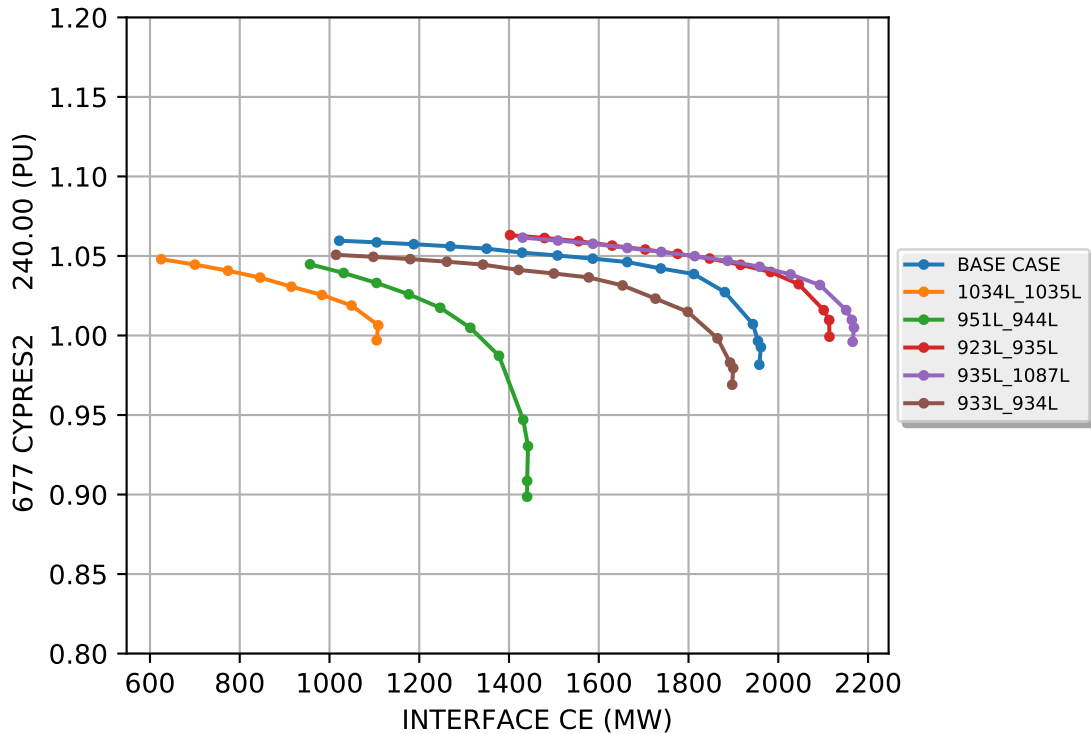


Figure: E-5-124

Case: M8, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 50.8%

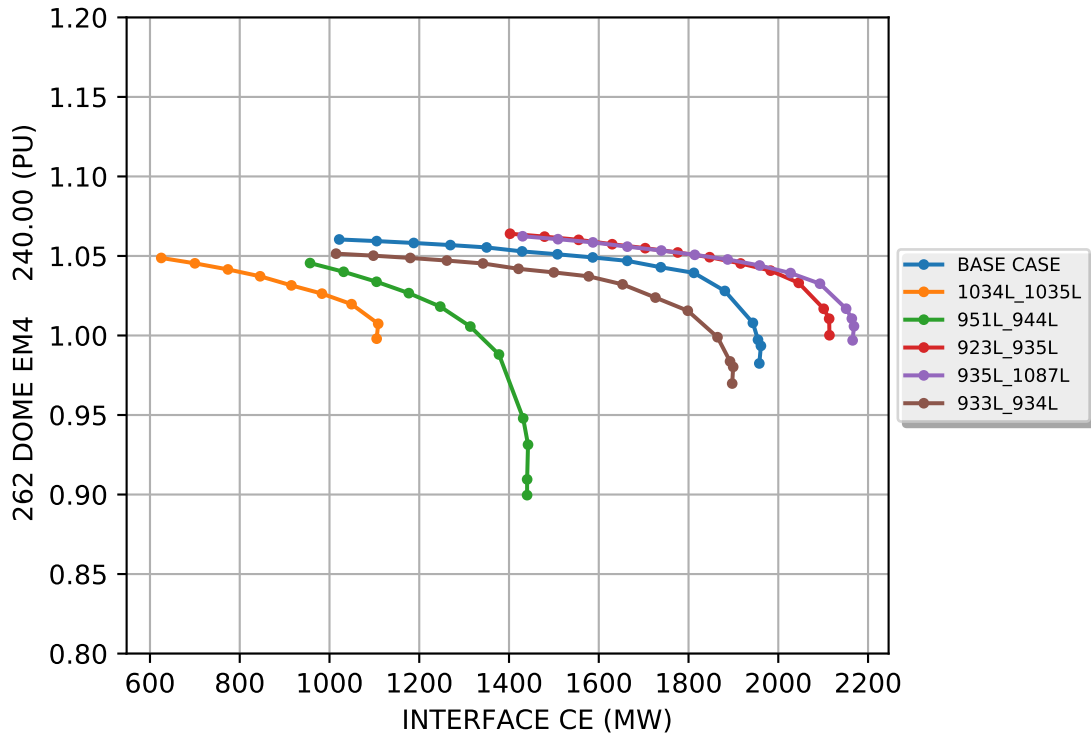


Figure: E-5-125

Case: M8, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 50.8%

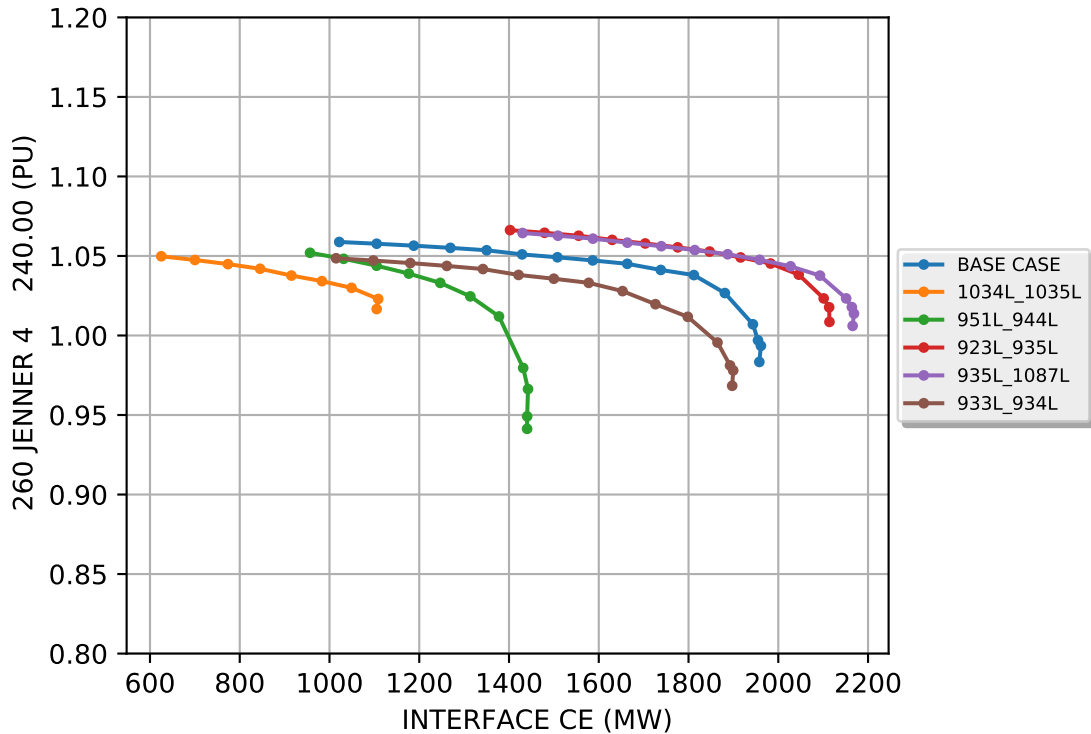


Figure: E-5-126

Case: M8, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 50.8%

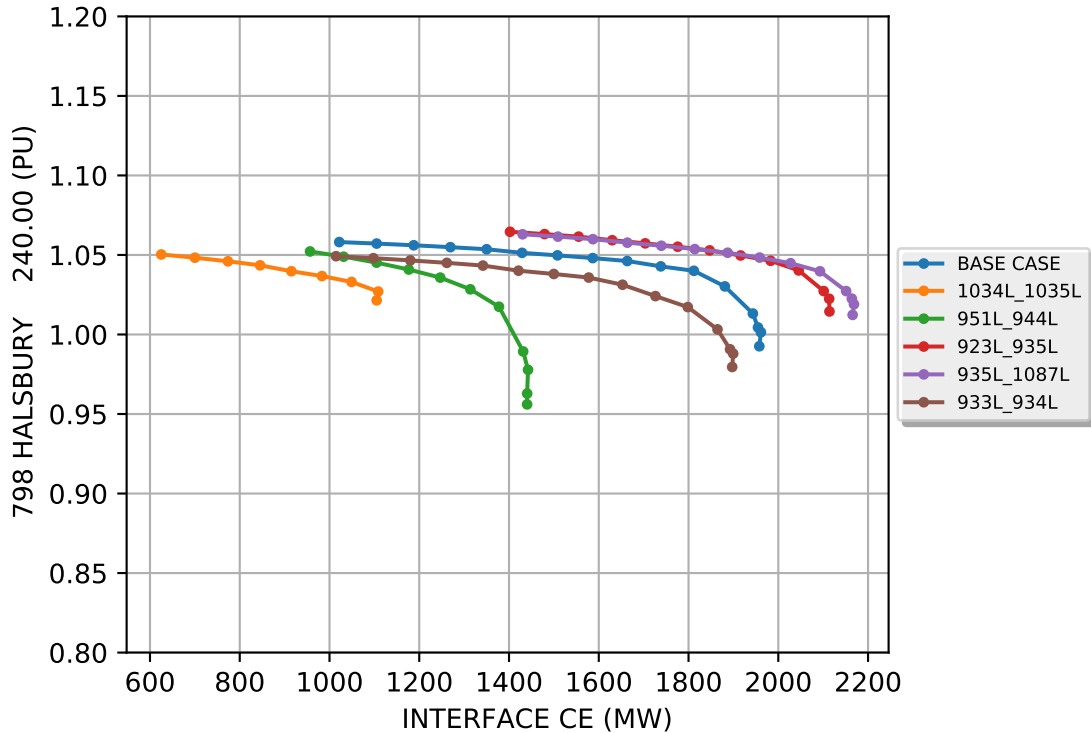


Figure: E-5-127

Case: M8, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 50.8%

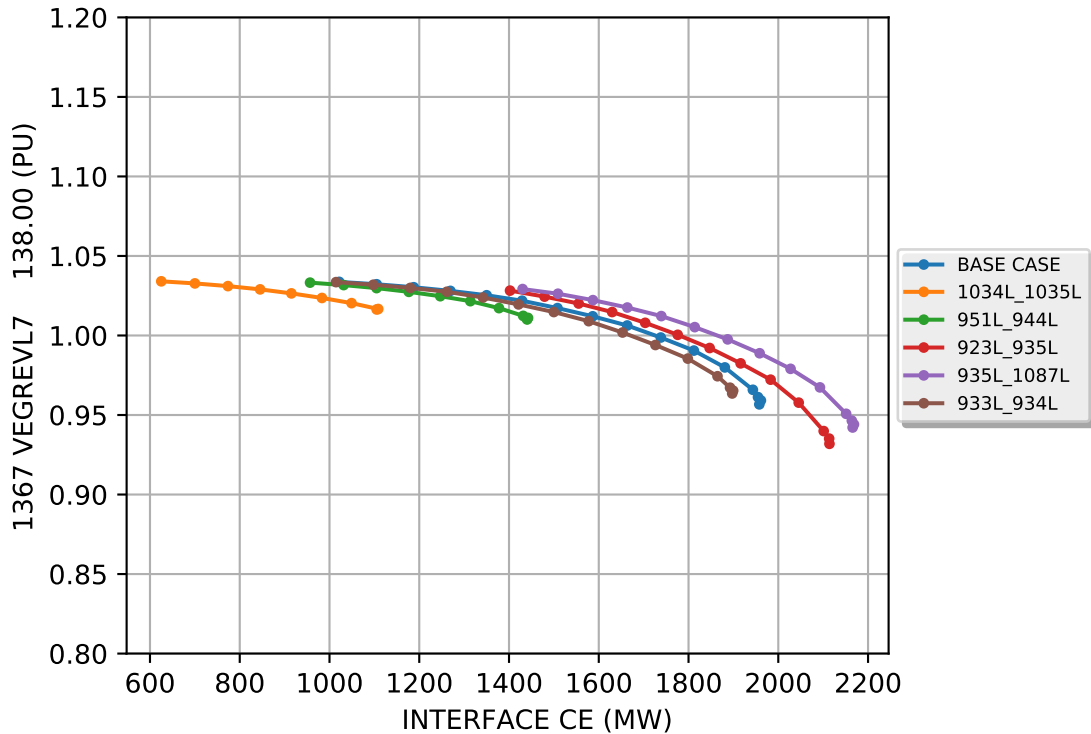


Figure: E-5-128

Case: M8, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 50.8%

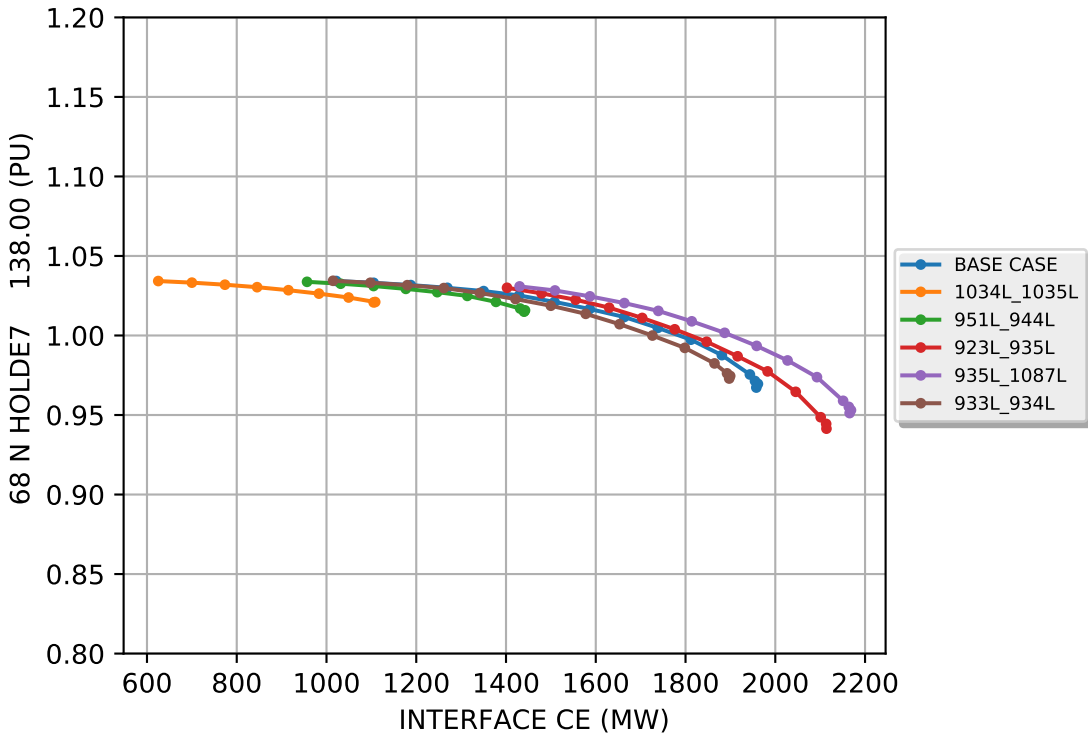


Figure: E-5-129

Case: M8, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 50.8%

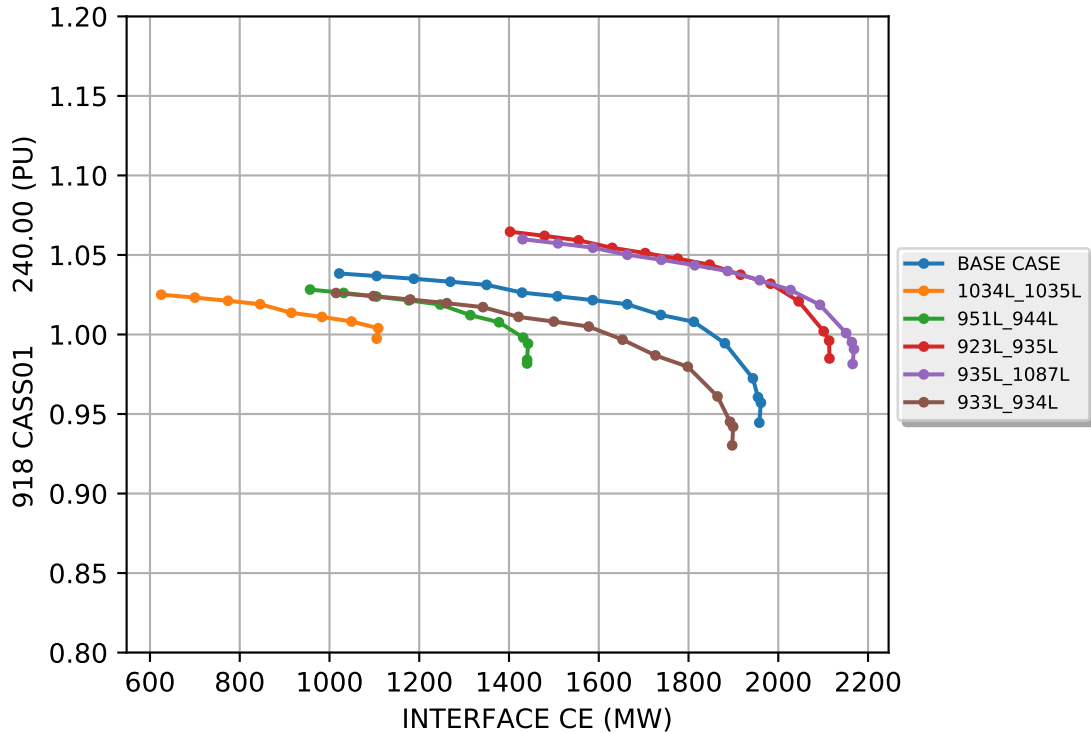


Figure: E-5-130

Case: M7, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 136.5%

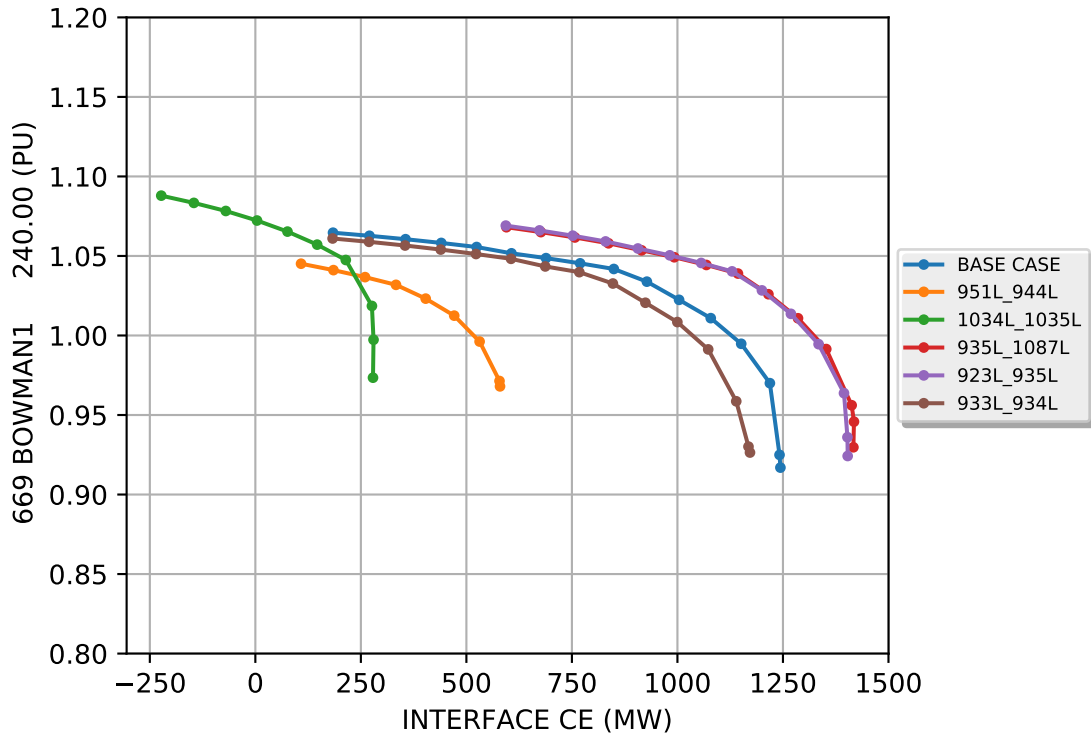


Figure: E-5-131

Case: M7, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 136.5%

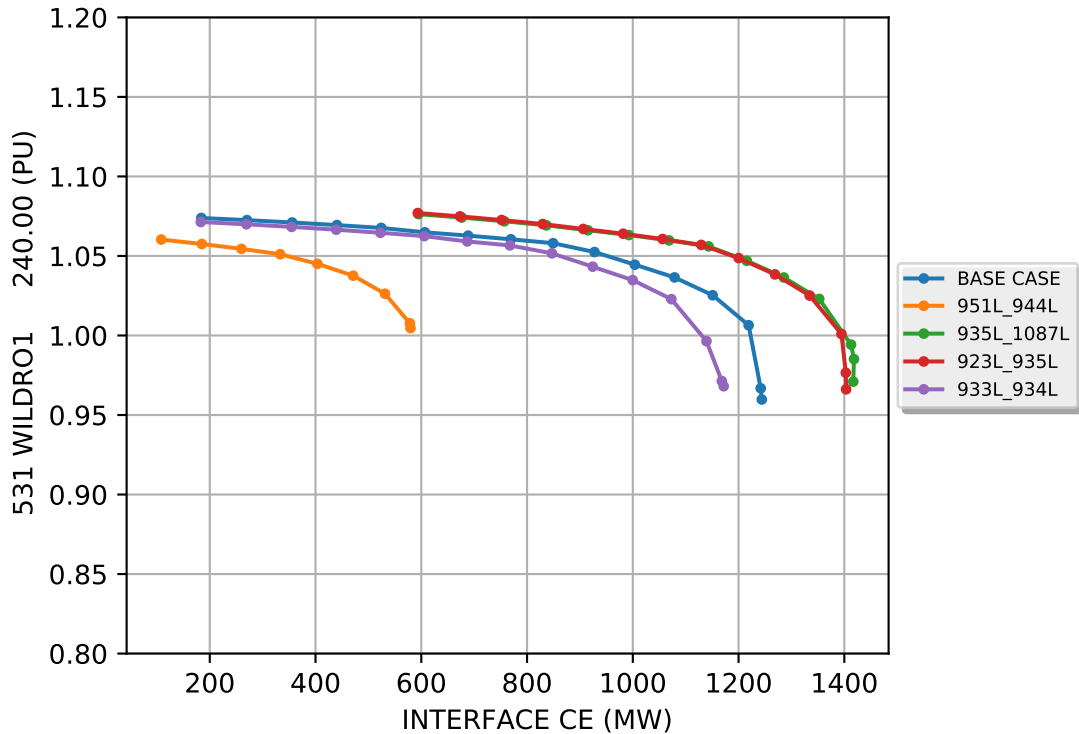


Figure: E-5-132

Case: M7, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 136.5%

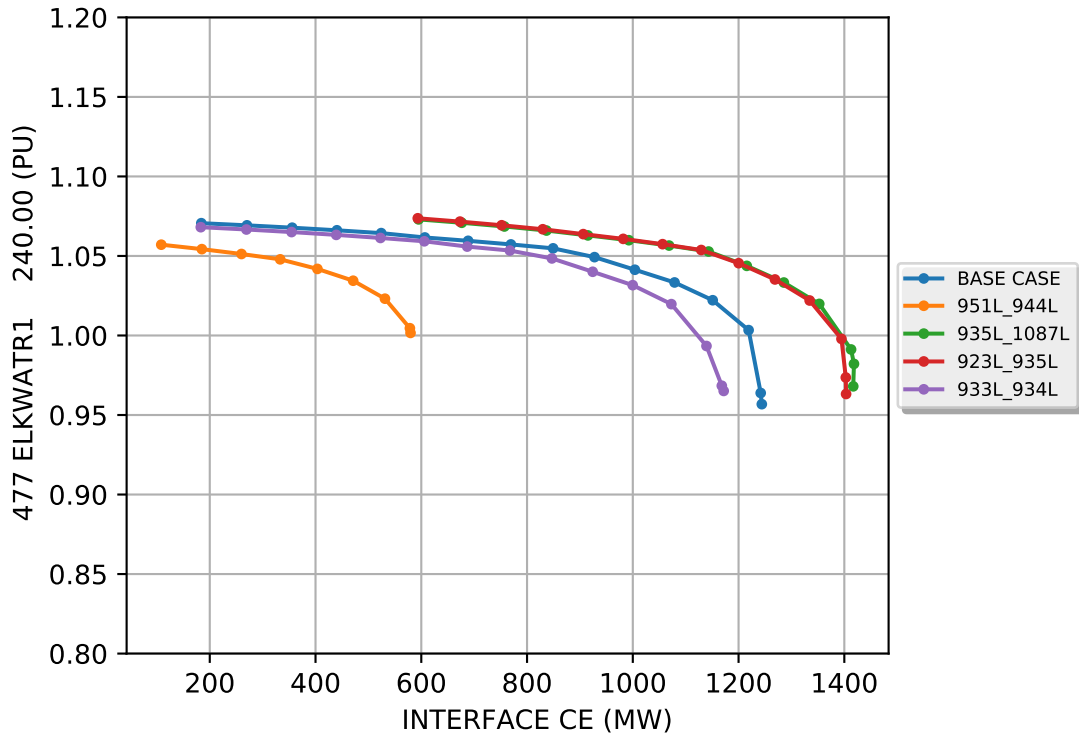


Figure: E-5-133

Case: M7, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 136.5%

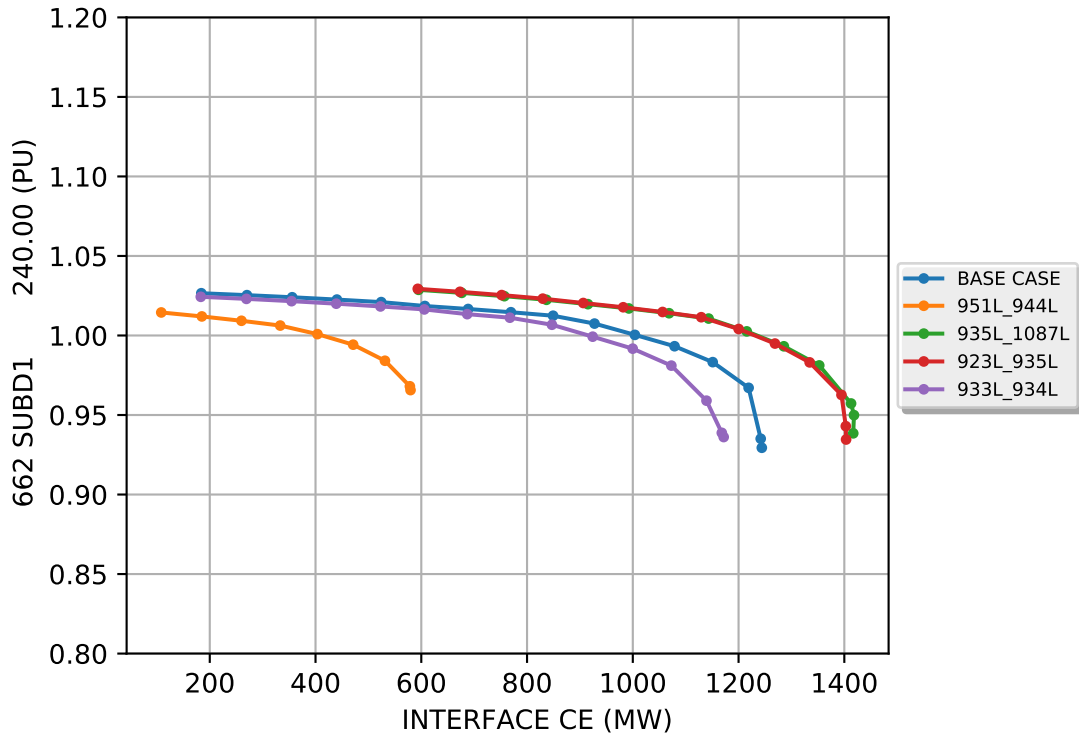


Figure: E-5-134

Case: M7, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 136.5%

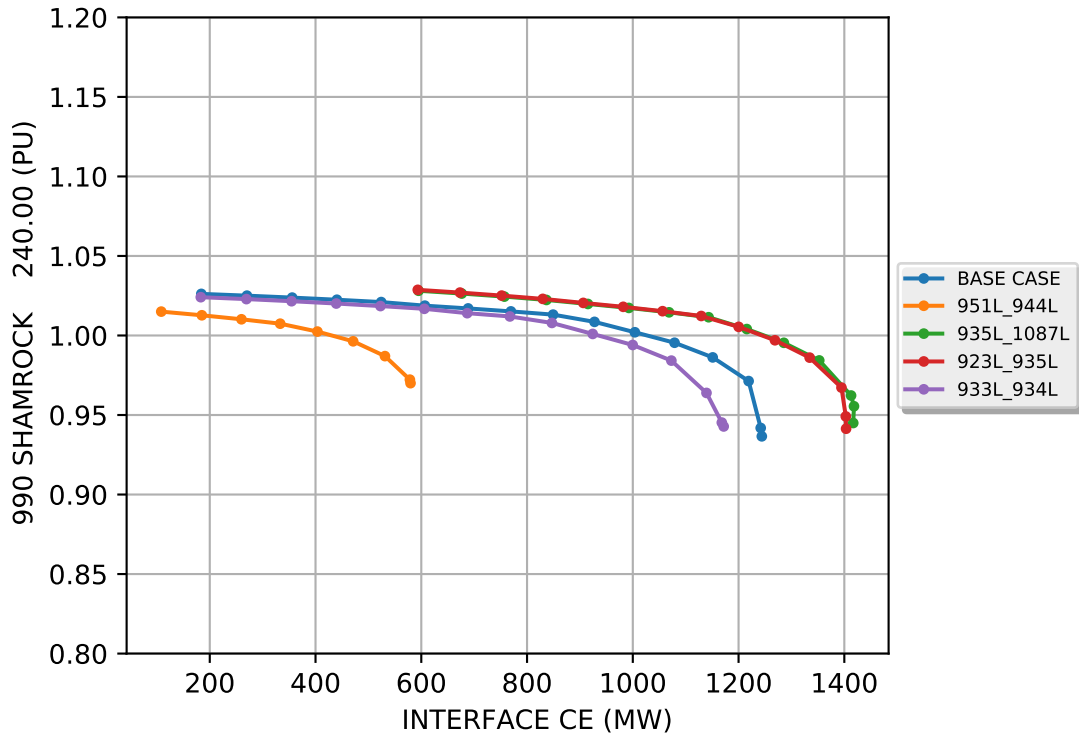


Figure: E-5-135

Case: M7, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 136.5%

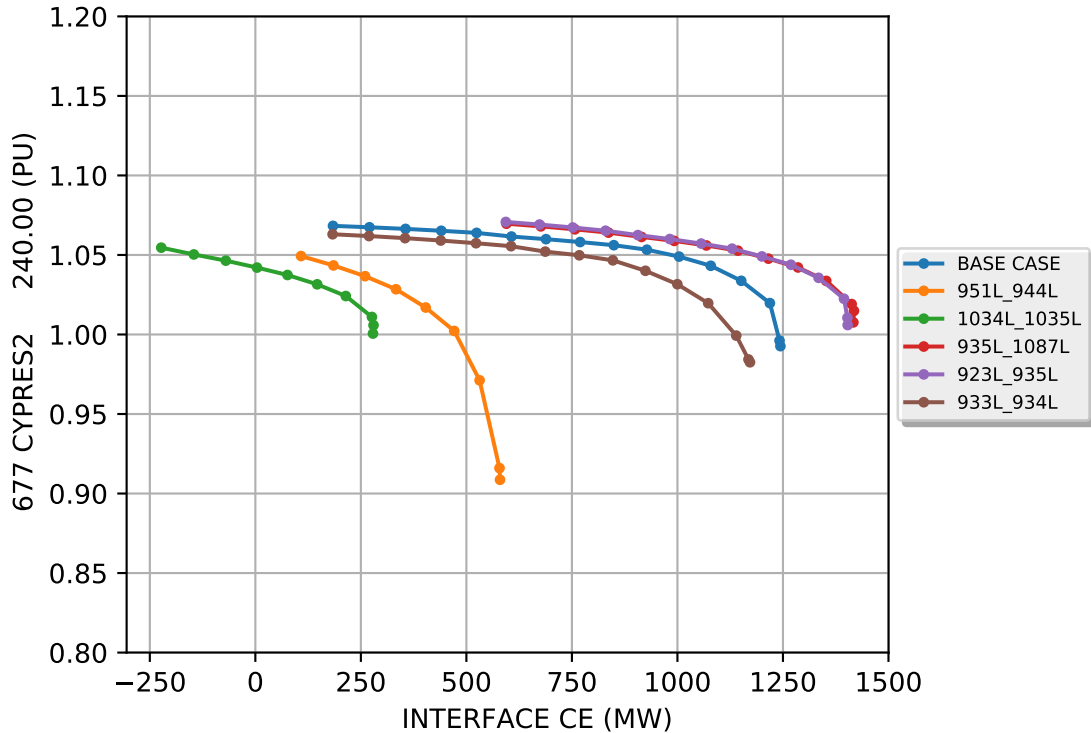


Figure: E-5-136

Case: M7, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 136.5%

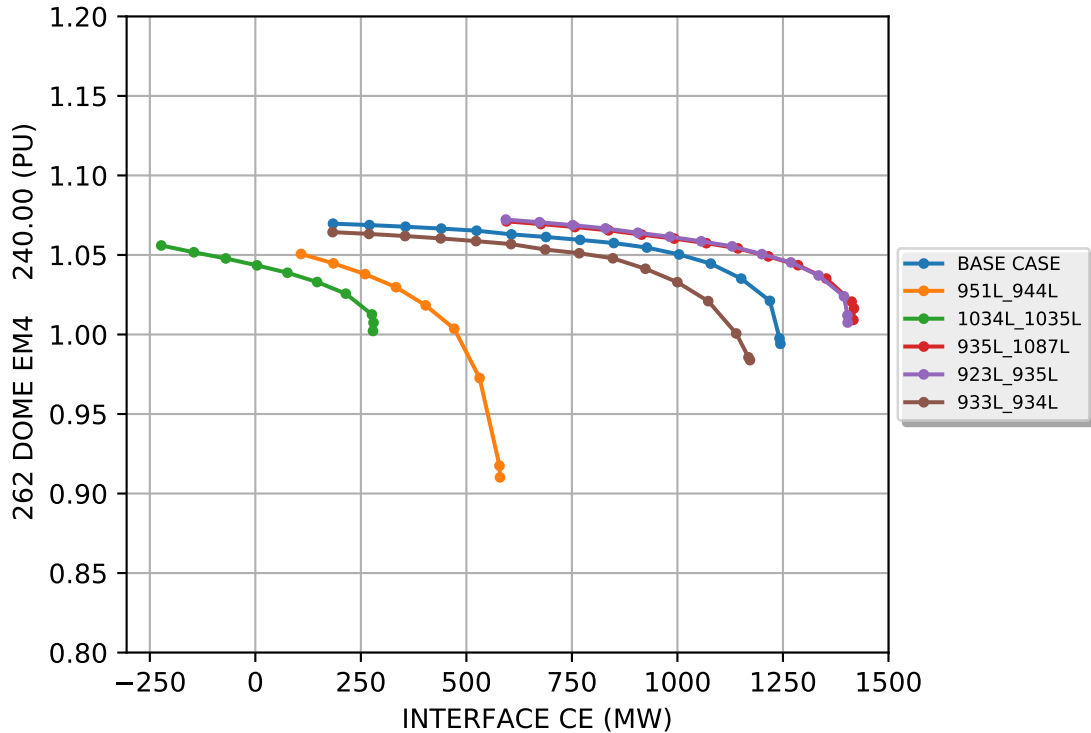


Figure: E-5-137

Case: M7, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 136.5%

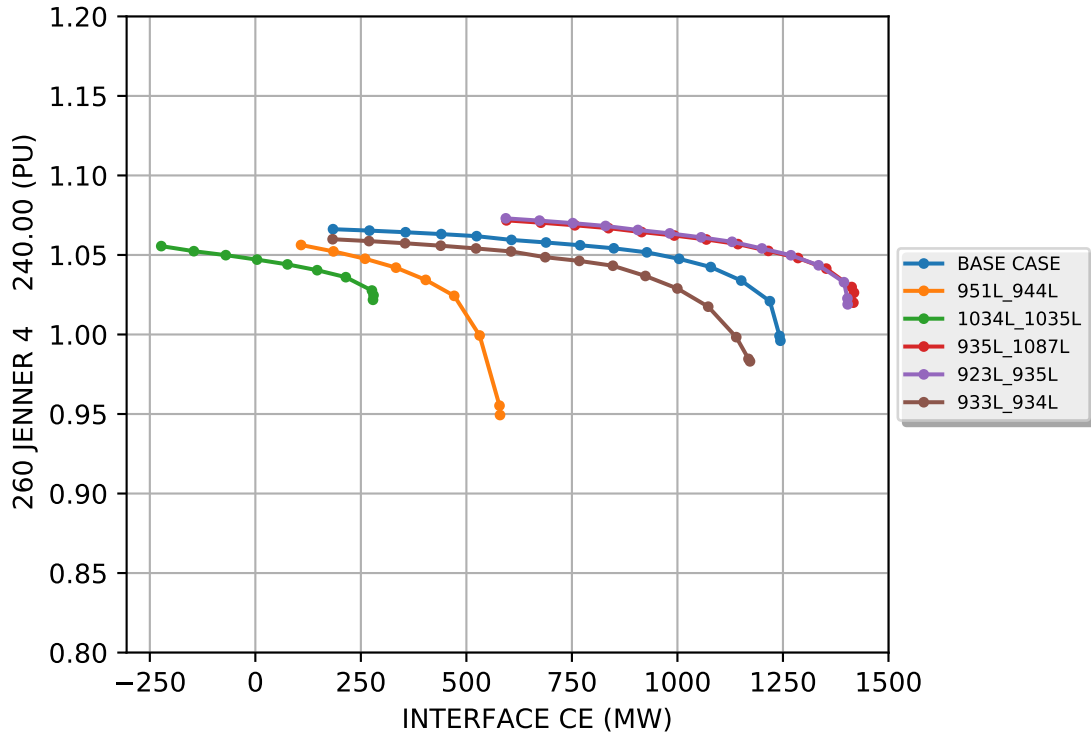


Figure: E-5-138

Case: M7, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 136.5%

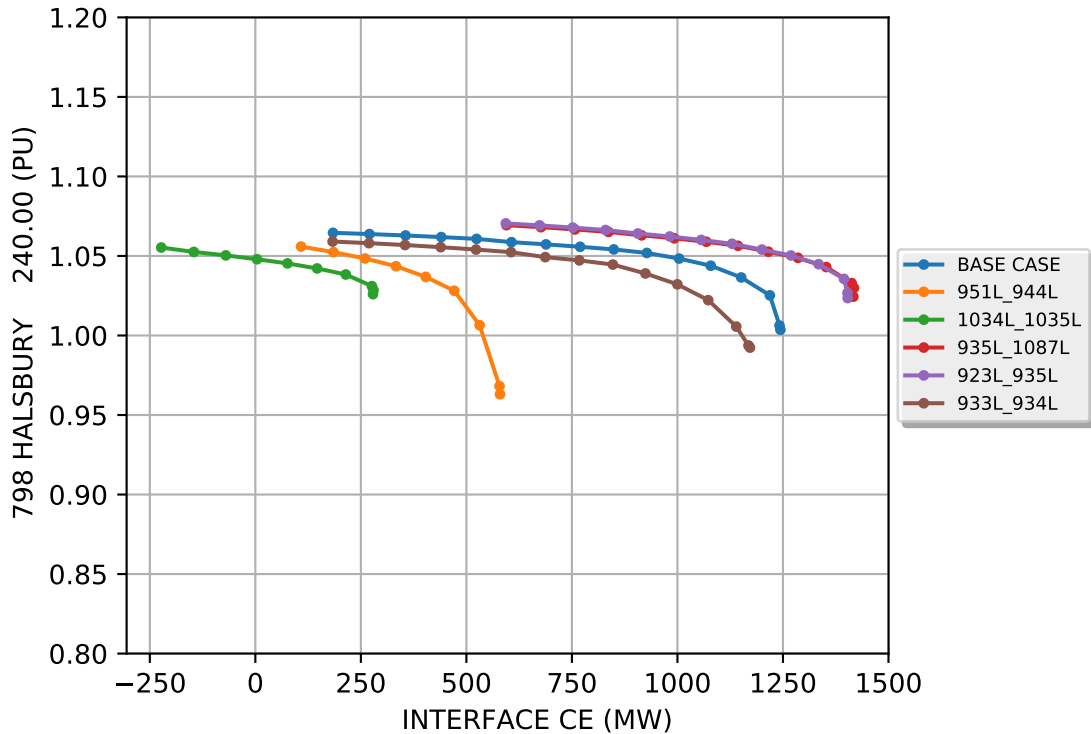


Figure: E-5-139

Case: M7, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 136.5%

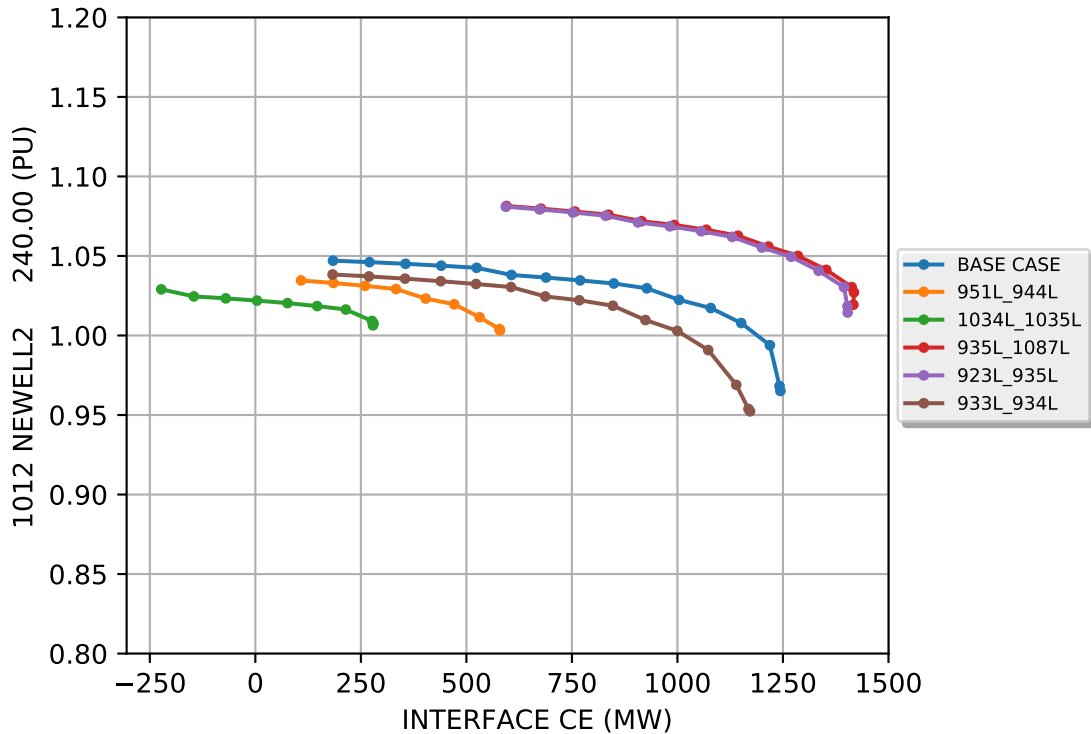


Figure: E-5-140

Case: M6, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 75.9%

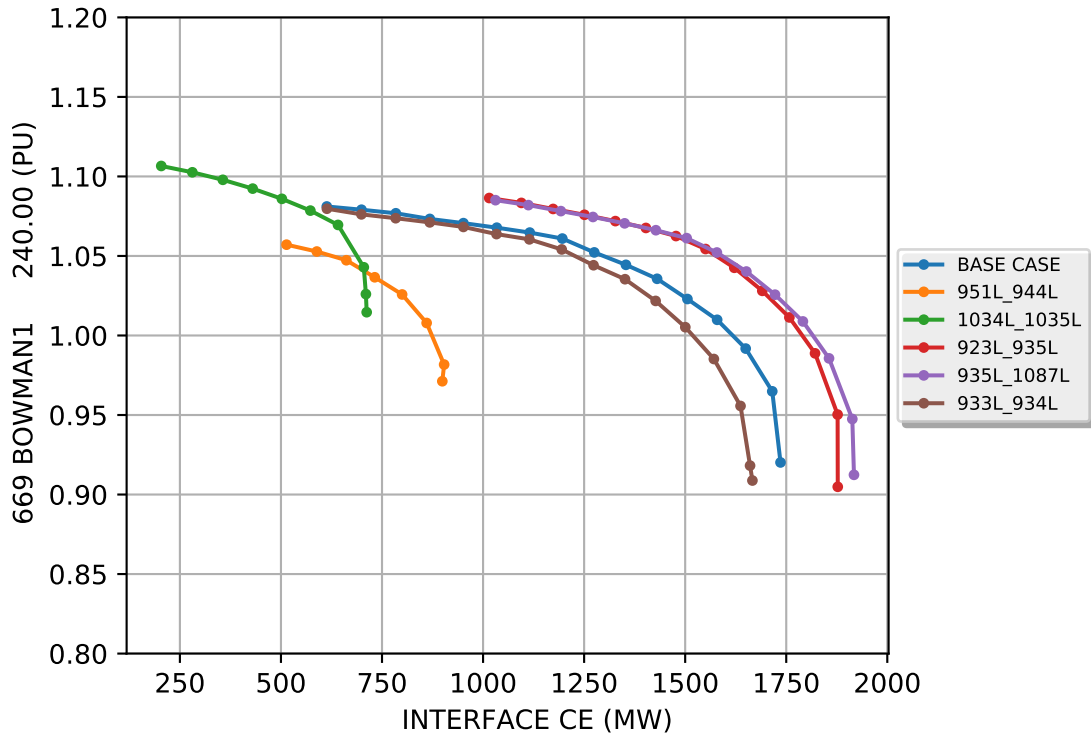


Figure: E-5-141

Case: M6, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 75.9%

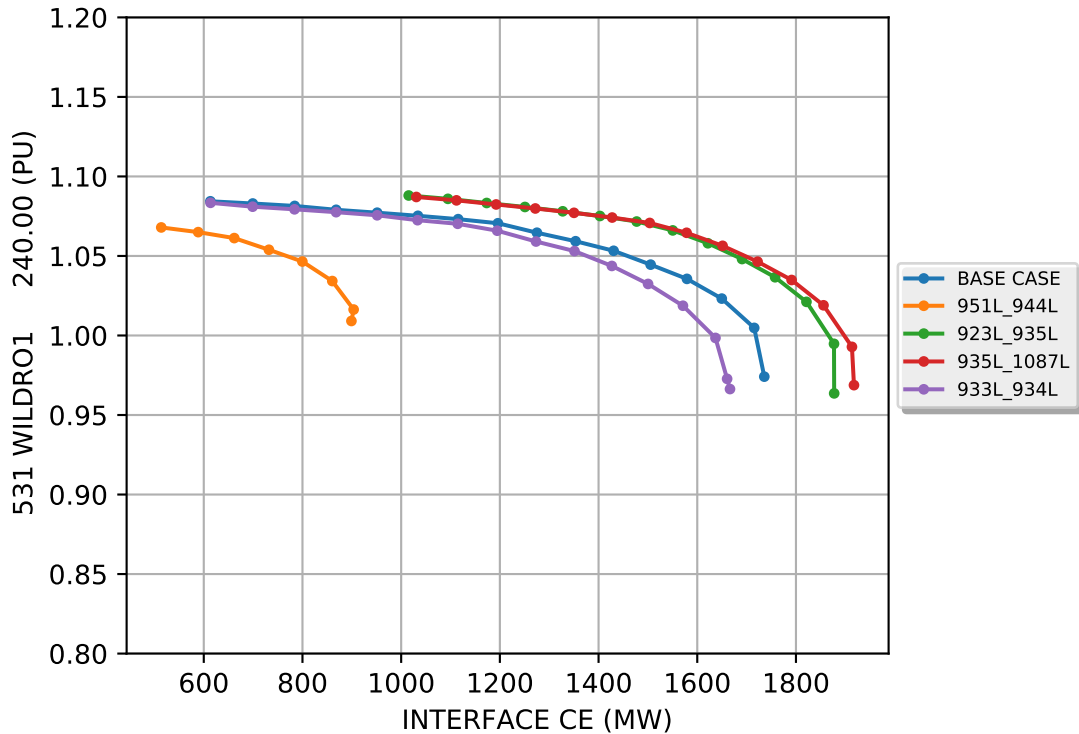


Figure: E-5-142

Case: M6, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 75.9%

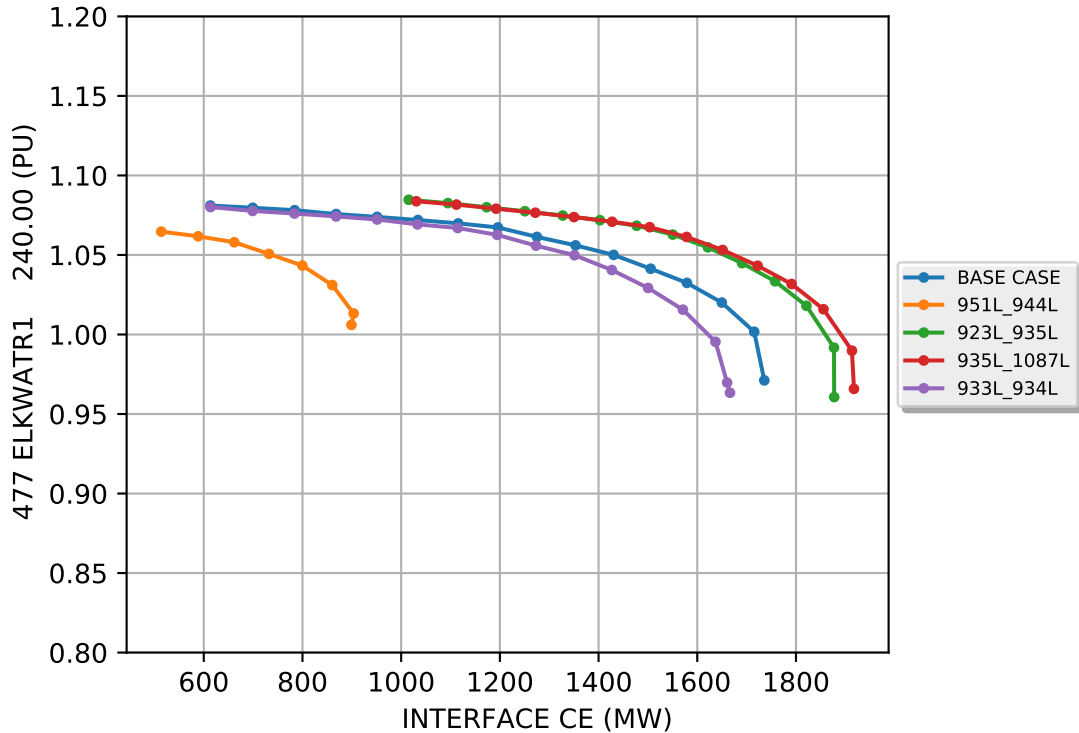


Figure: E-5-143

Case: M6, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 75.9%

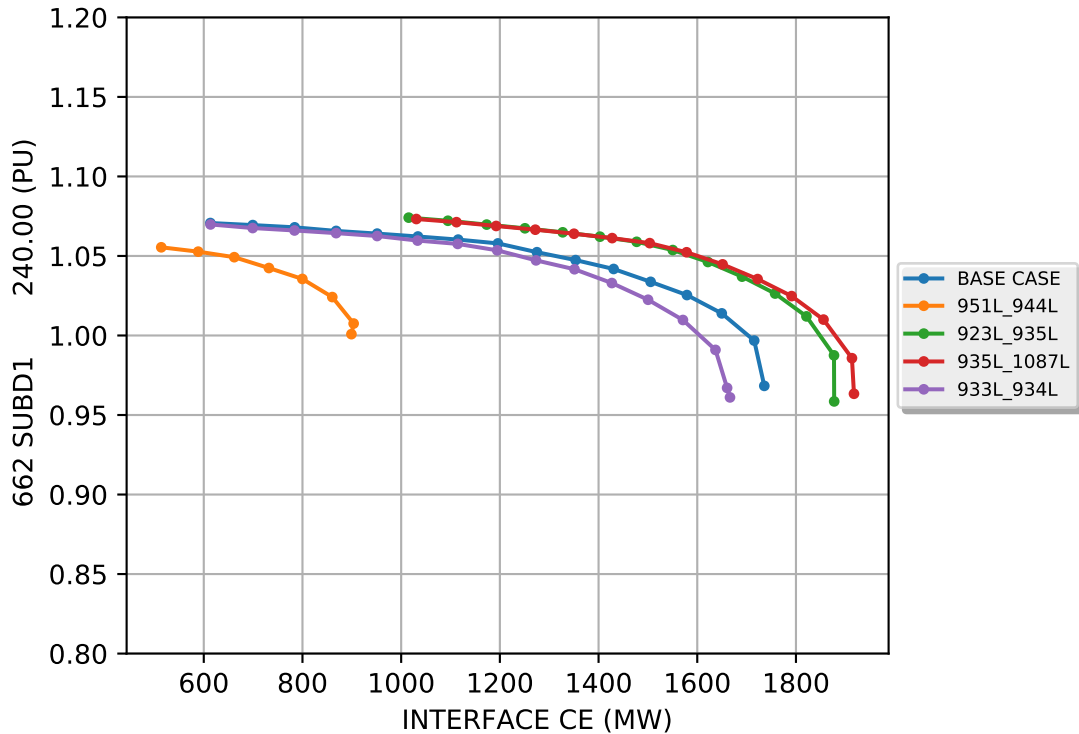


Figure: E-5-144

Case: M6, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 75.9%

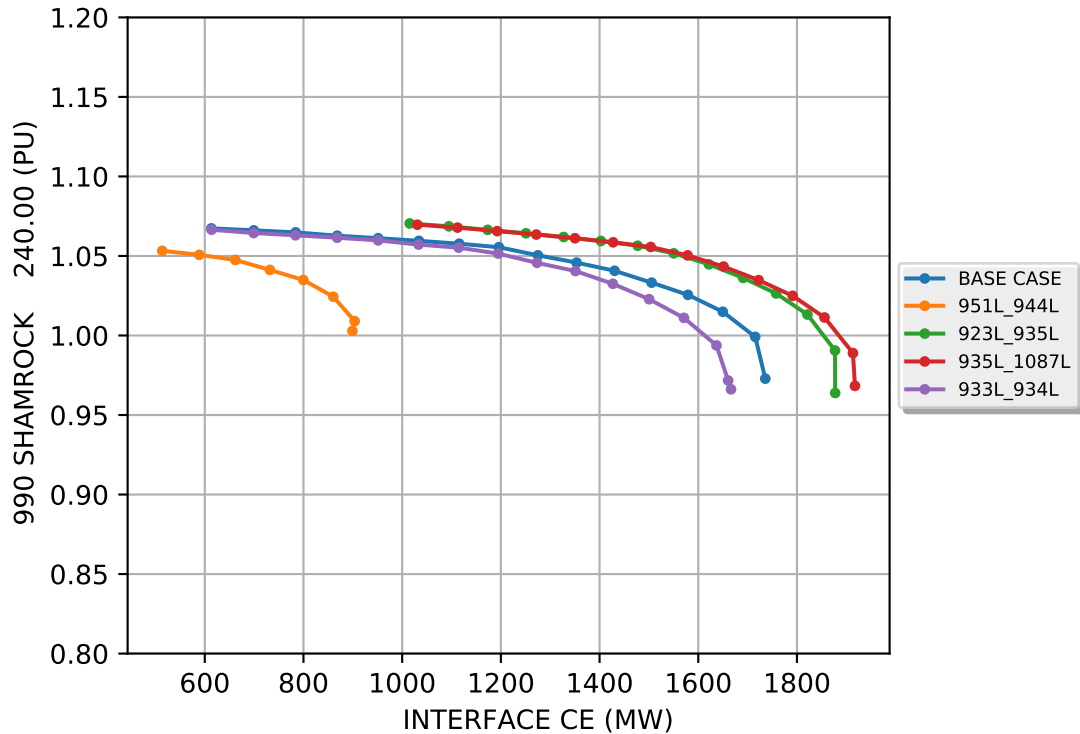


Figure: E-5-145

Case: M6, Option: BOTH

Min Voltage: 0.89 PU, Min Margin: 75.9%

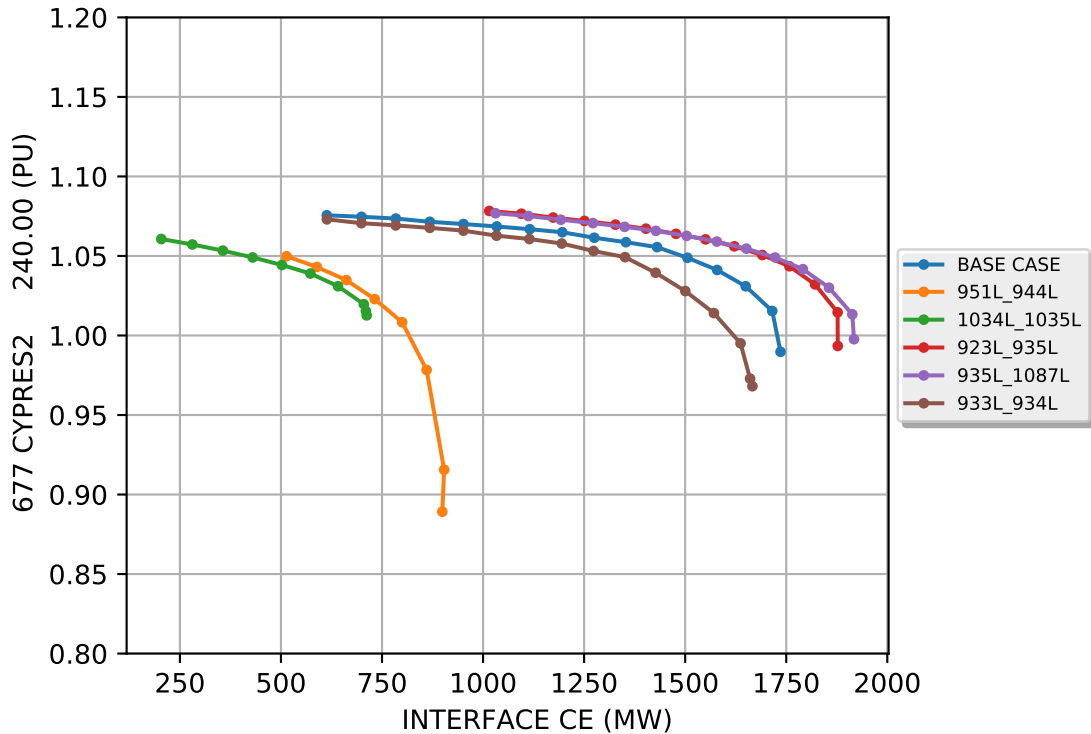


Figure: E-5-146

Case: M6, Option: BOTH

Min Voltage: 0.89 PU, Min Margin: 75.9%

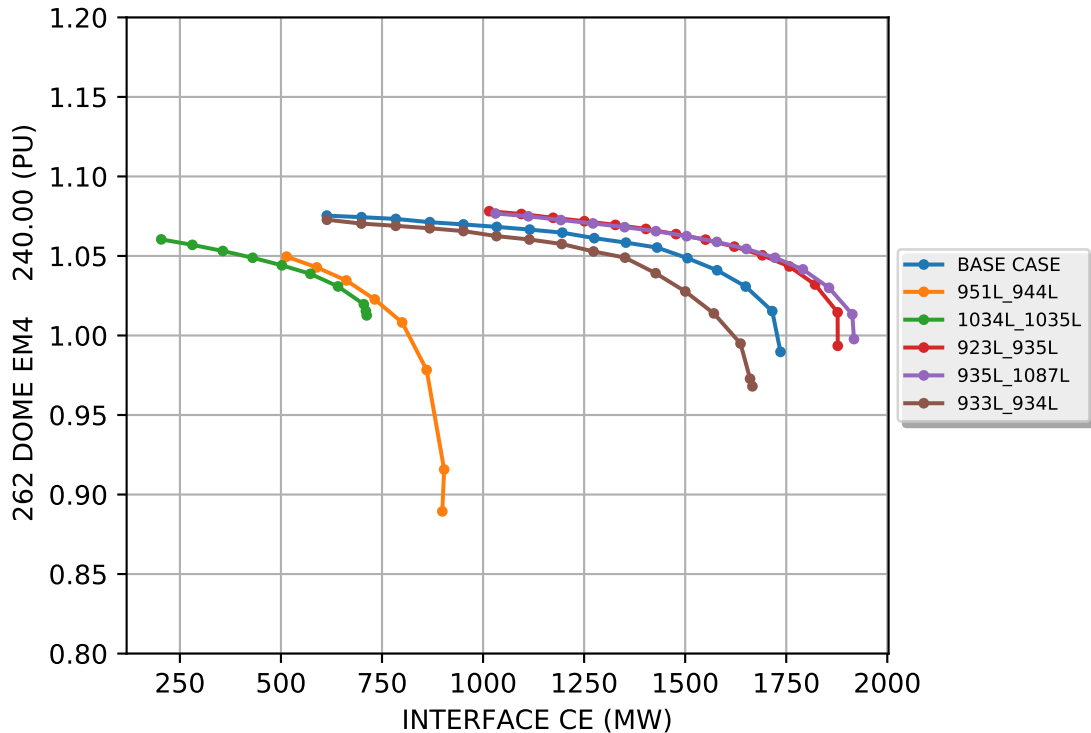


Figure: E-5-147

Case: M6, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 75.9%

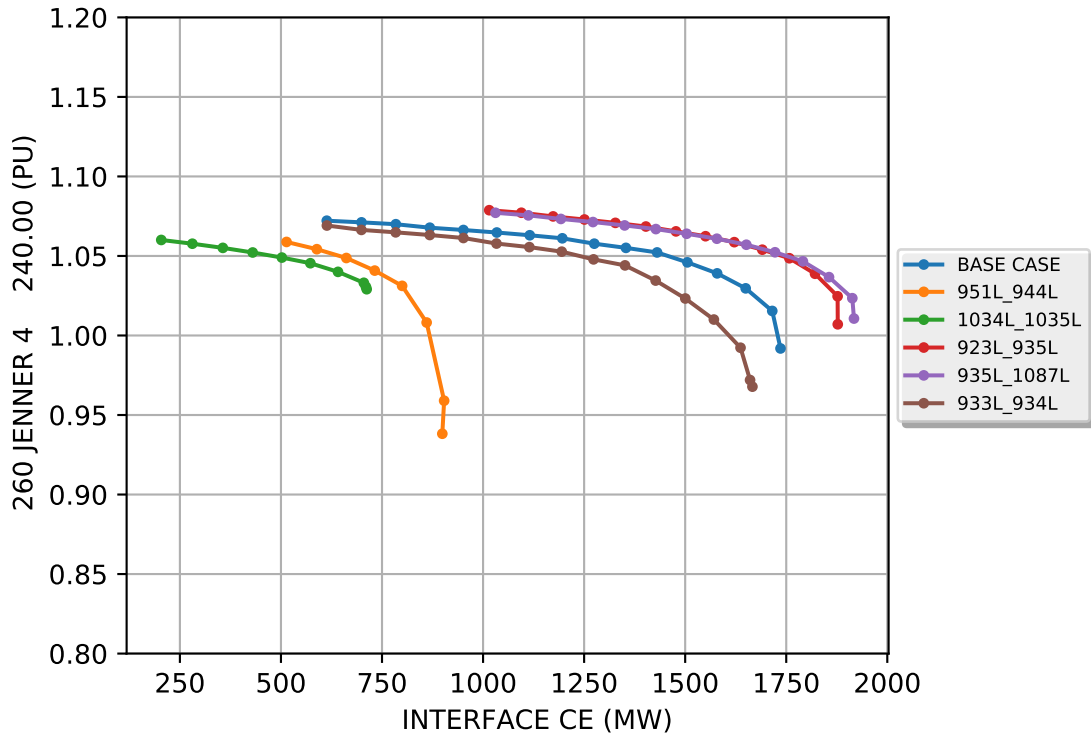


Figure: E-5-148

Case: M6, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 75.9%

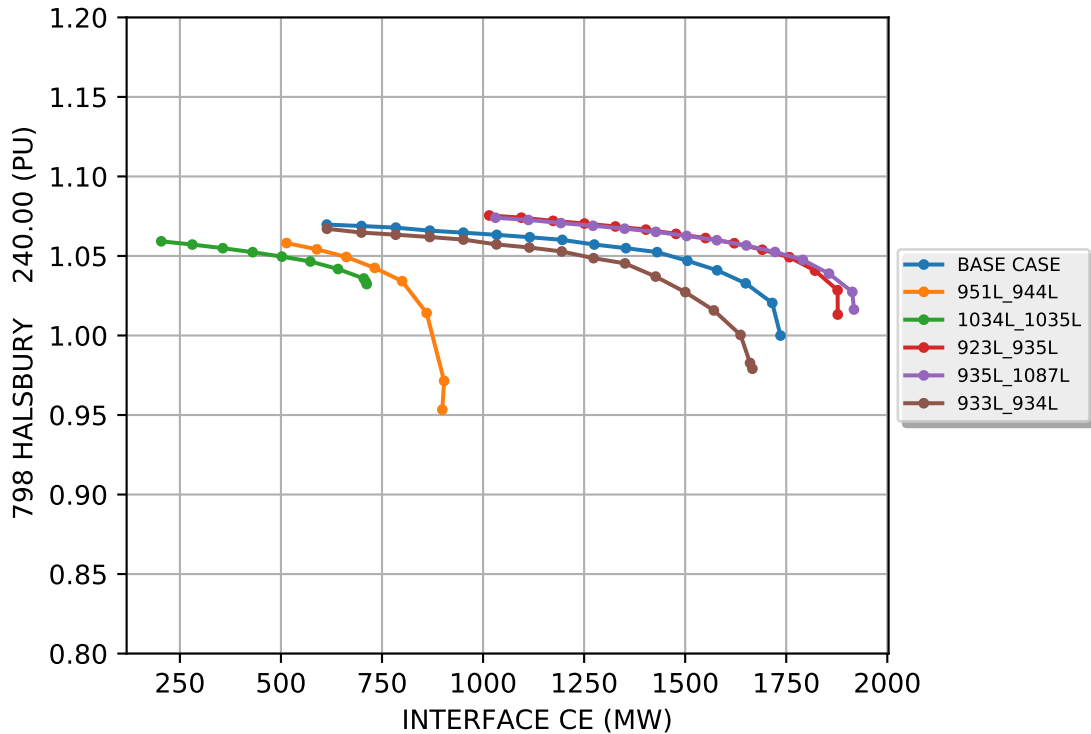


Figure: E-5-149

Case: M6, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 75.9%

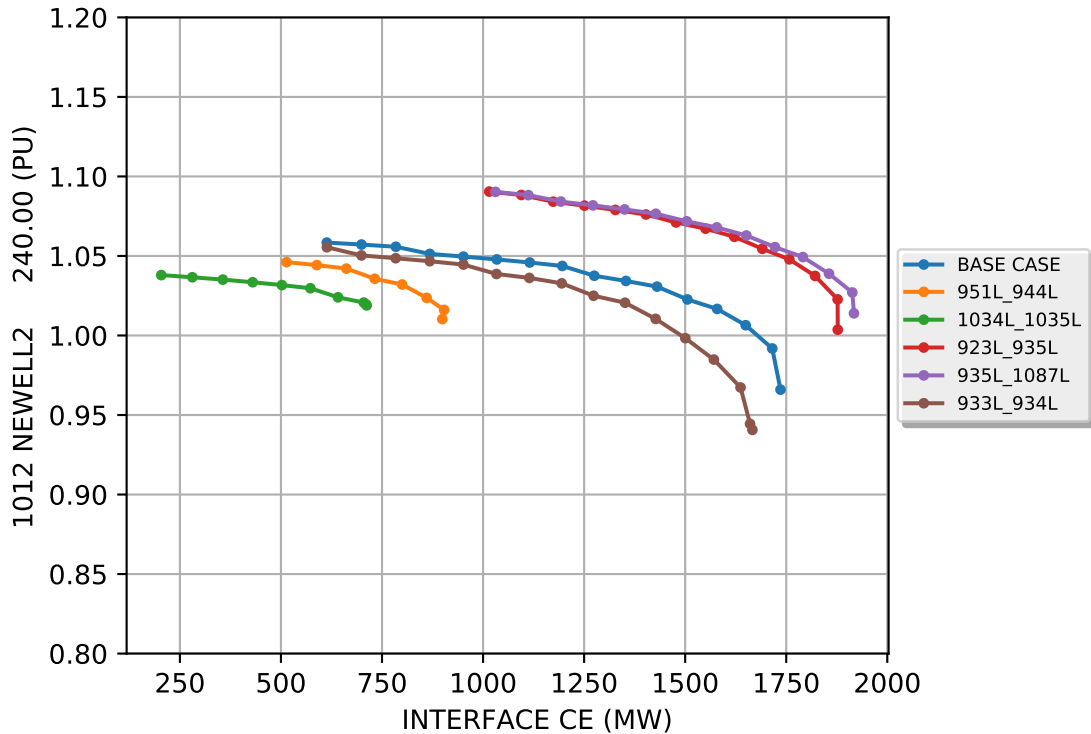


Figure: E-5-150

Case: M6, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 75.9%

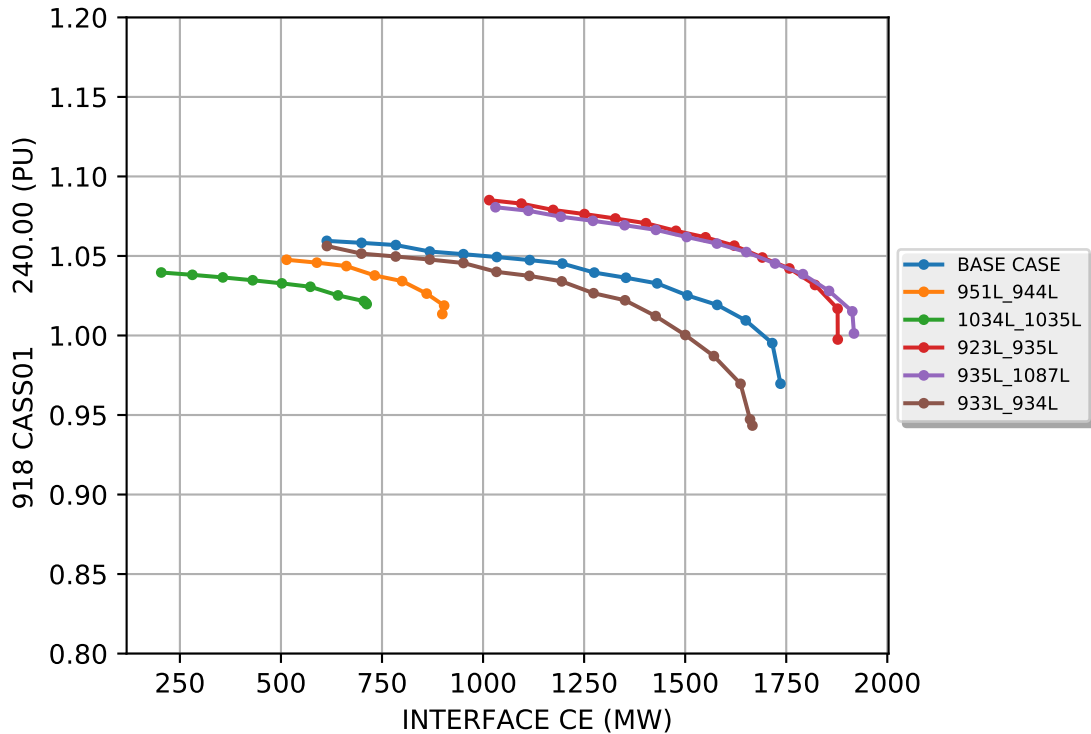


Figure: E-5-151

Case: H1, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 56.6%

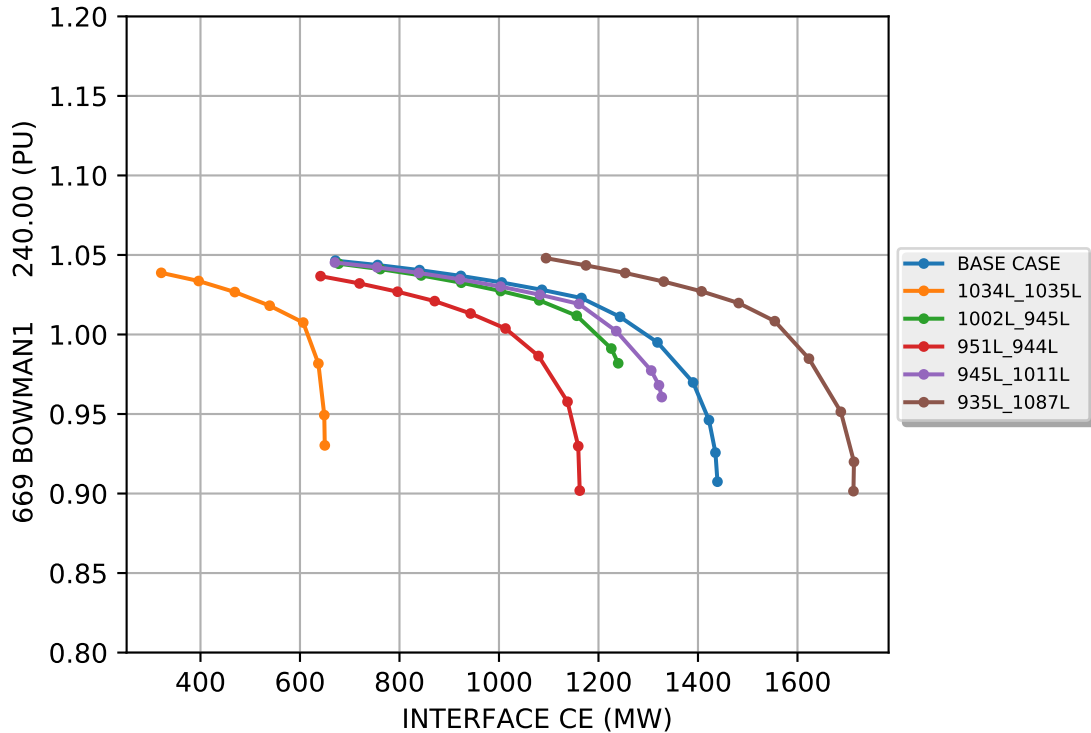


Figure: E-5-152

Case: H1, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 56.6%

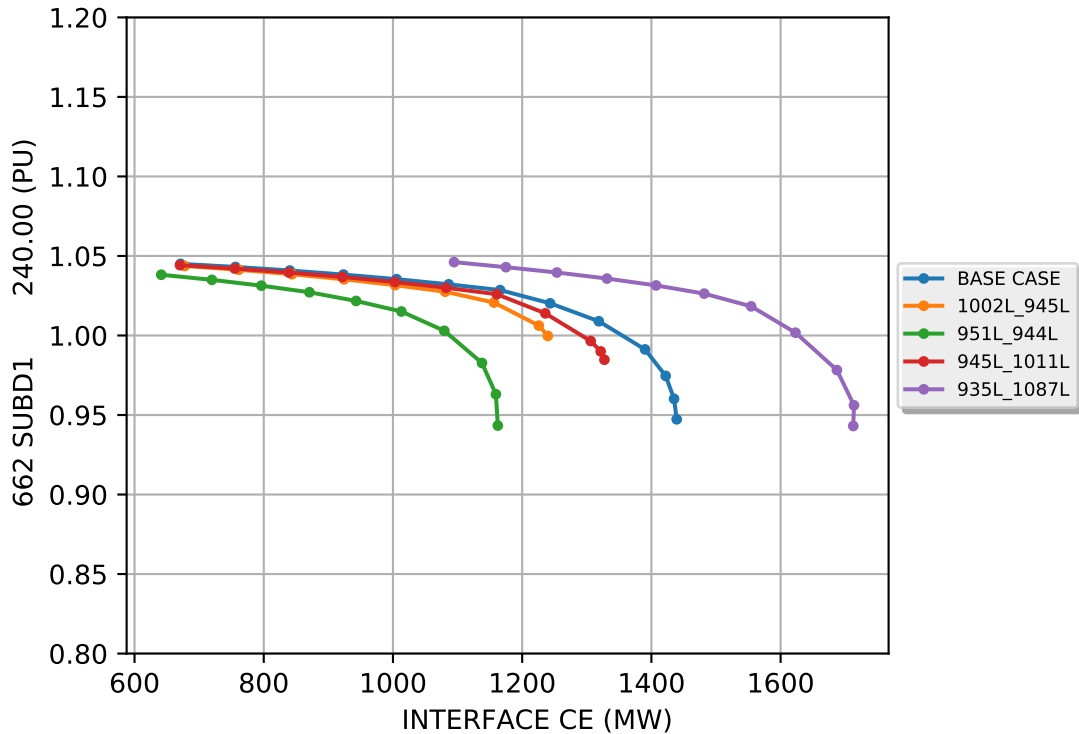


Figure: E-5-153

Case: H1, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 56.6%

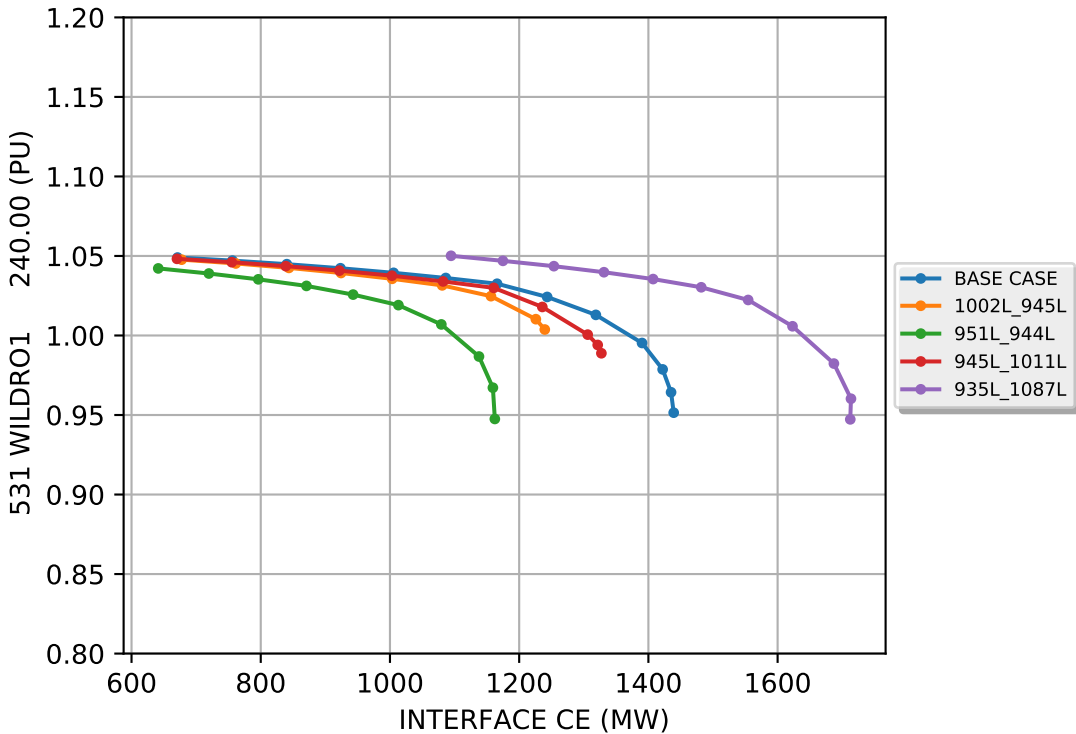


Figure: E-5-154

Case: H1, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 56.6%

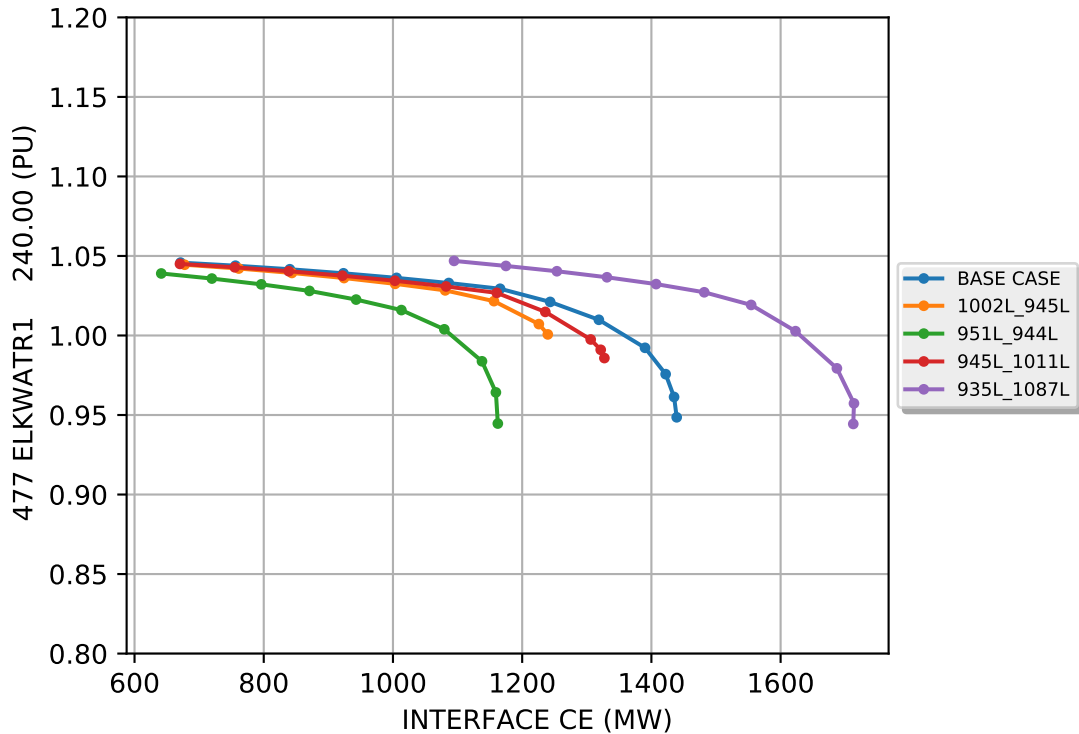


Figure: E-5-155

Case: H1, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 56.6%

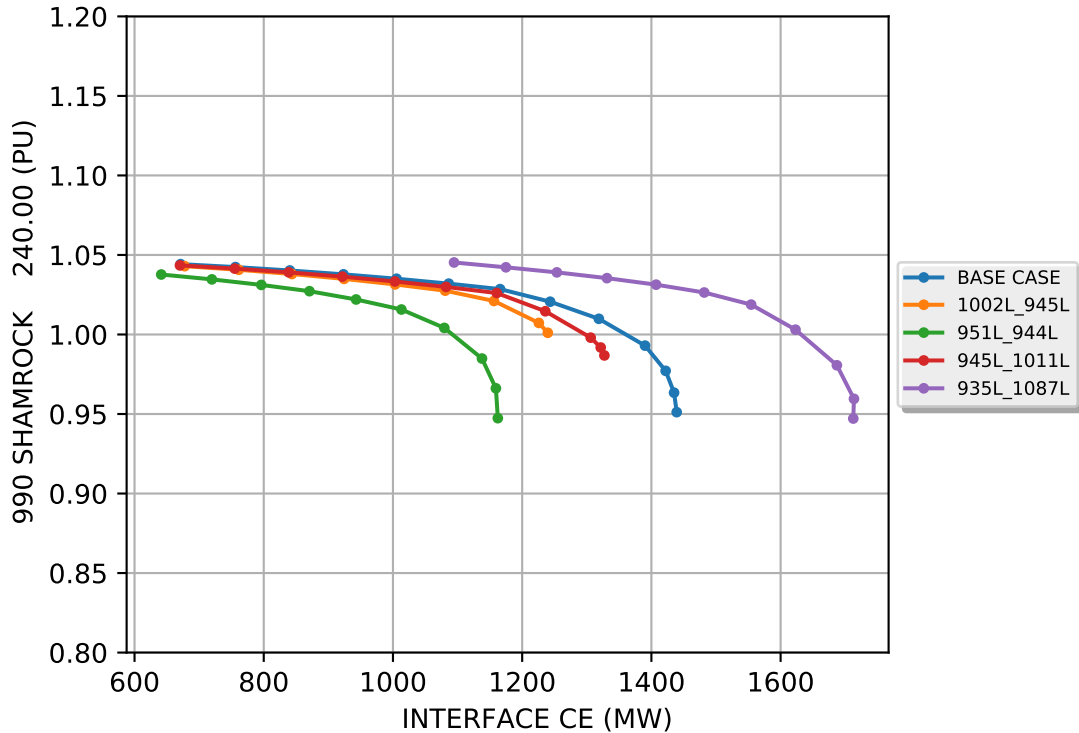


Figure: E-5-157

Case: H1, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 56.6%

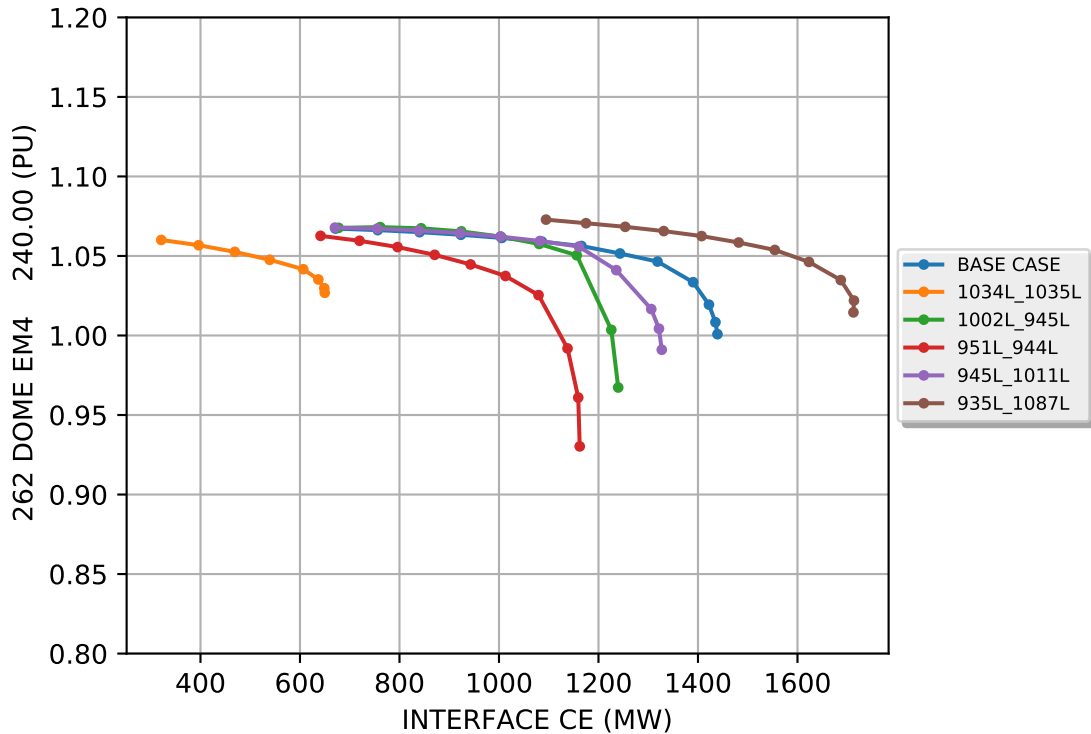


Figure: E-5-158

Case: H1, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 56.6%

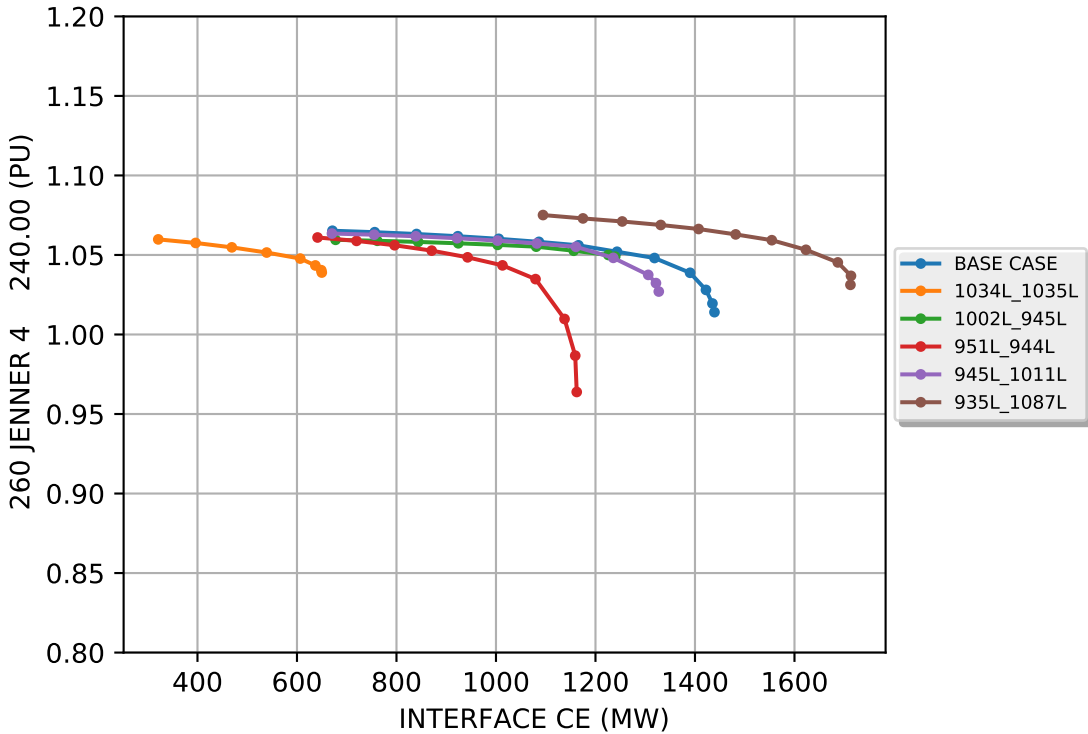


Figure: E-5-159

Case: H1, Option: BOTH

Min Voltage: 0.98 PU, Min Margin: 56.6%

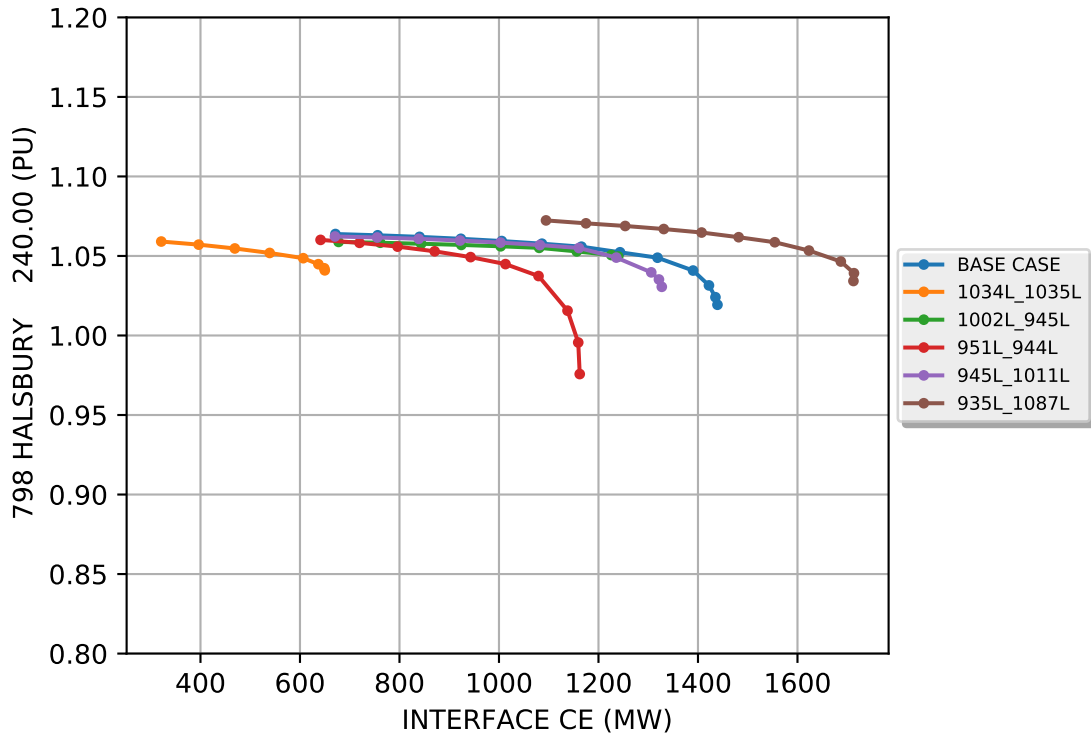


Figure: E-5-160

Case: H2, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 49.6%

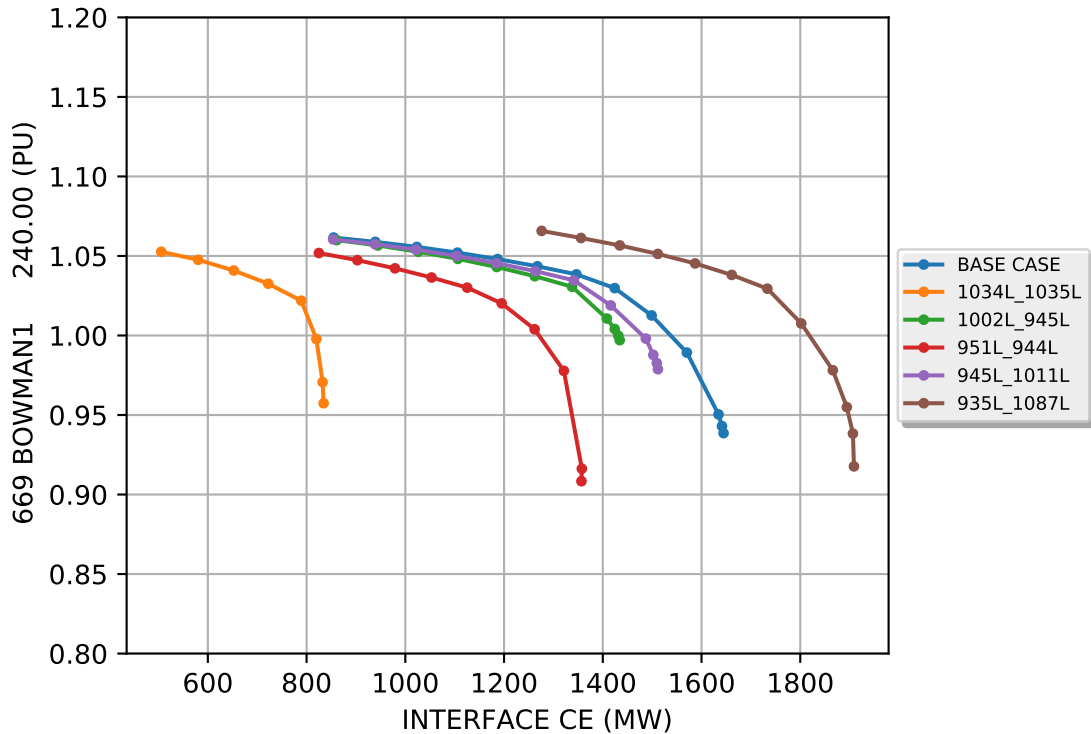


Figure: E-5-161

Case: H2, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 49.6%

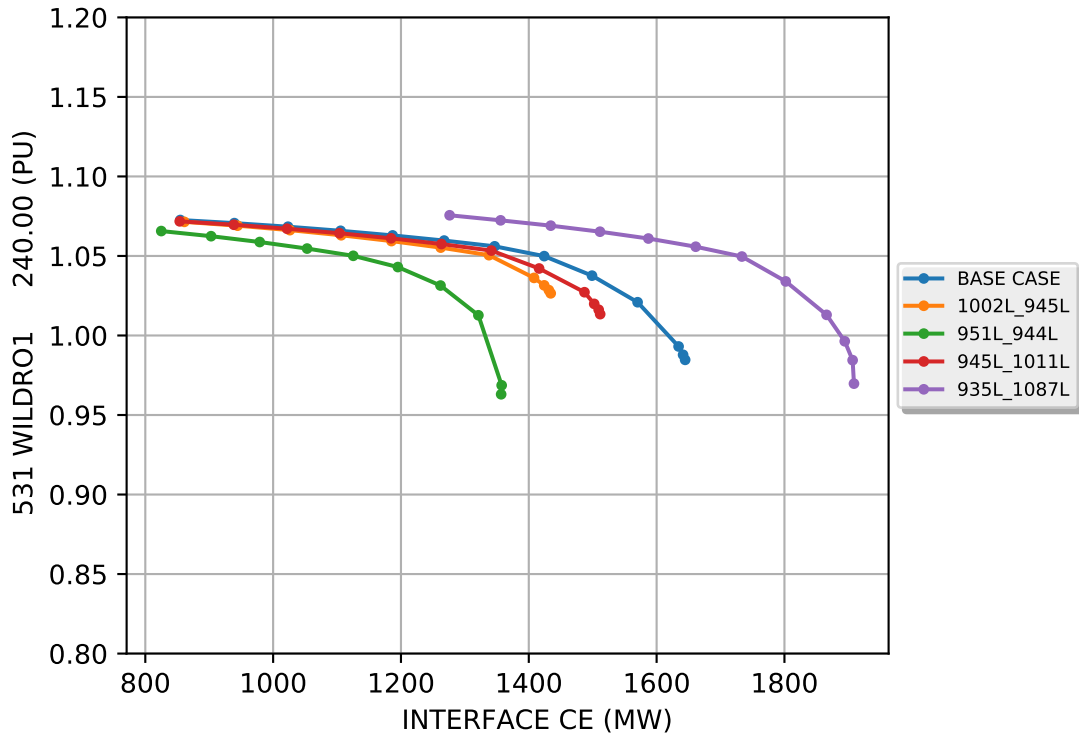


Figure: E-5-162

Case: H2, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 49.6%

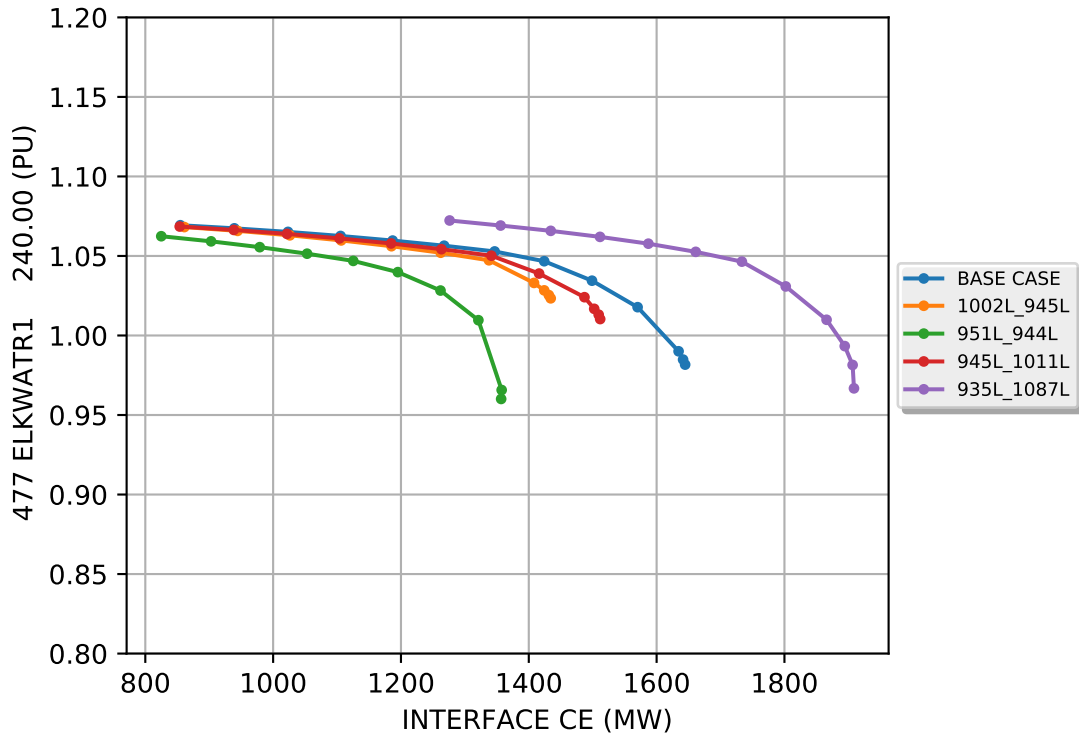


Figure: E-5-163

Case: H2, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 49.6%

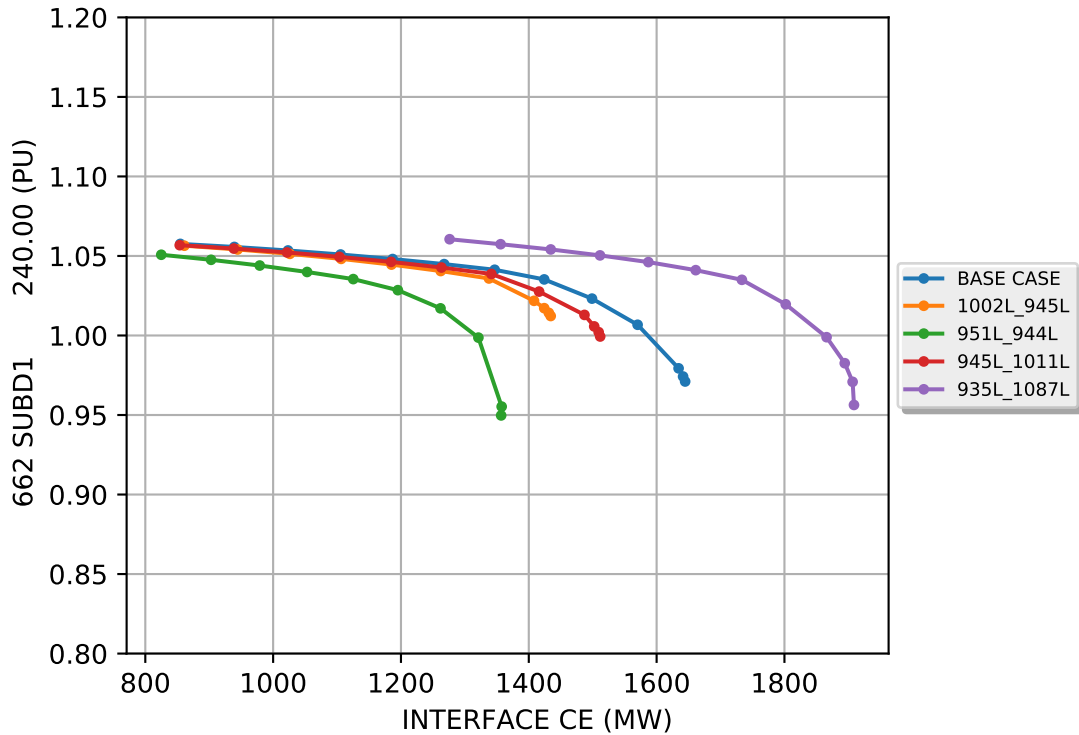


Figure: E-5-164

Case: H2, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 49.6%

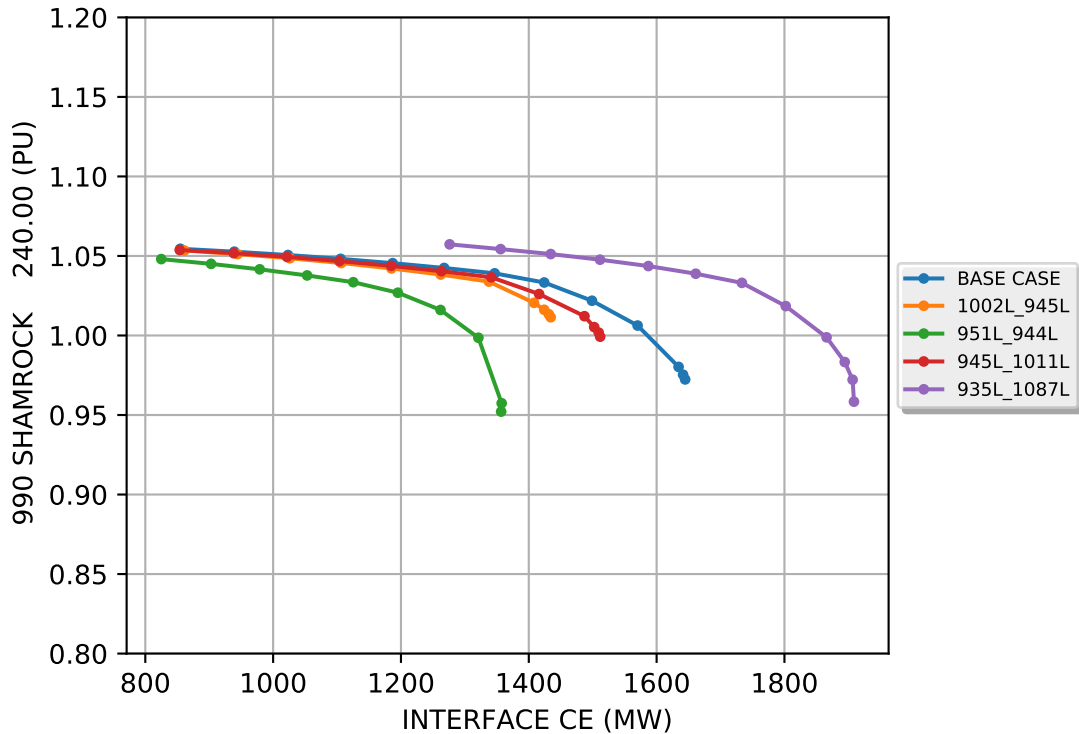


Figure: E-5-165

Case: H2, Option: BOTH

Min Voltage: 0.88 PU, Min Margin: 49.6%

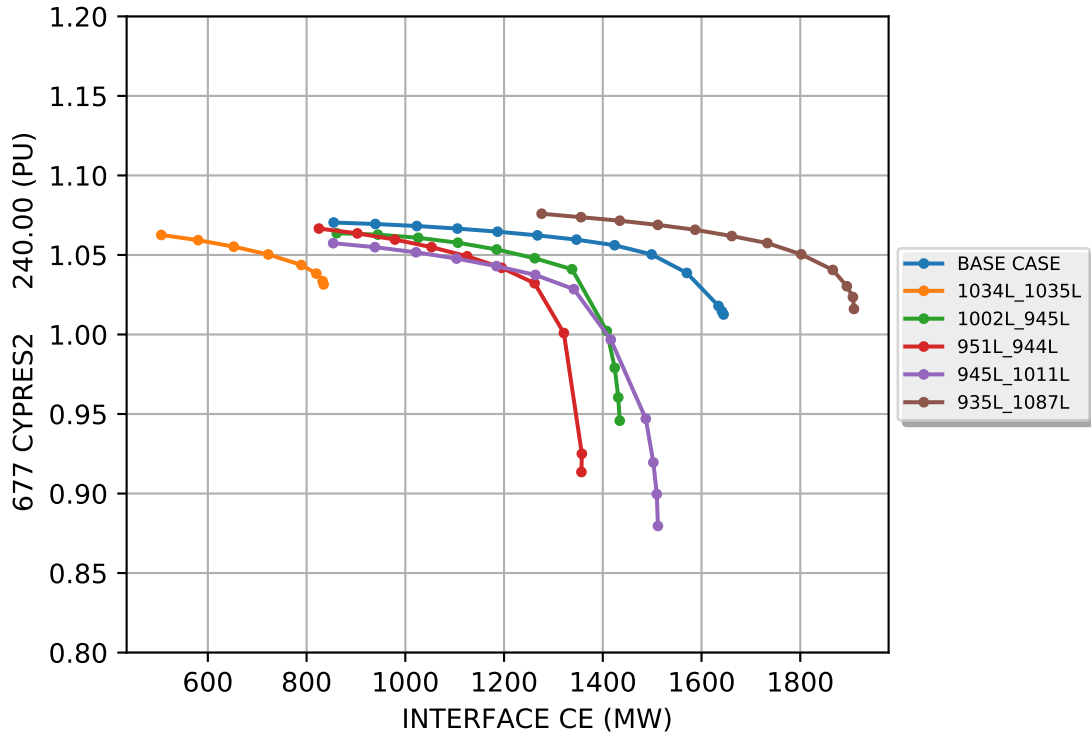


Figure: E-5-166

Case: H2, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 49.6%

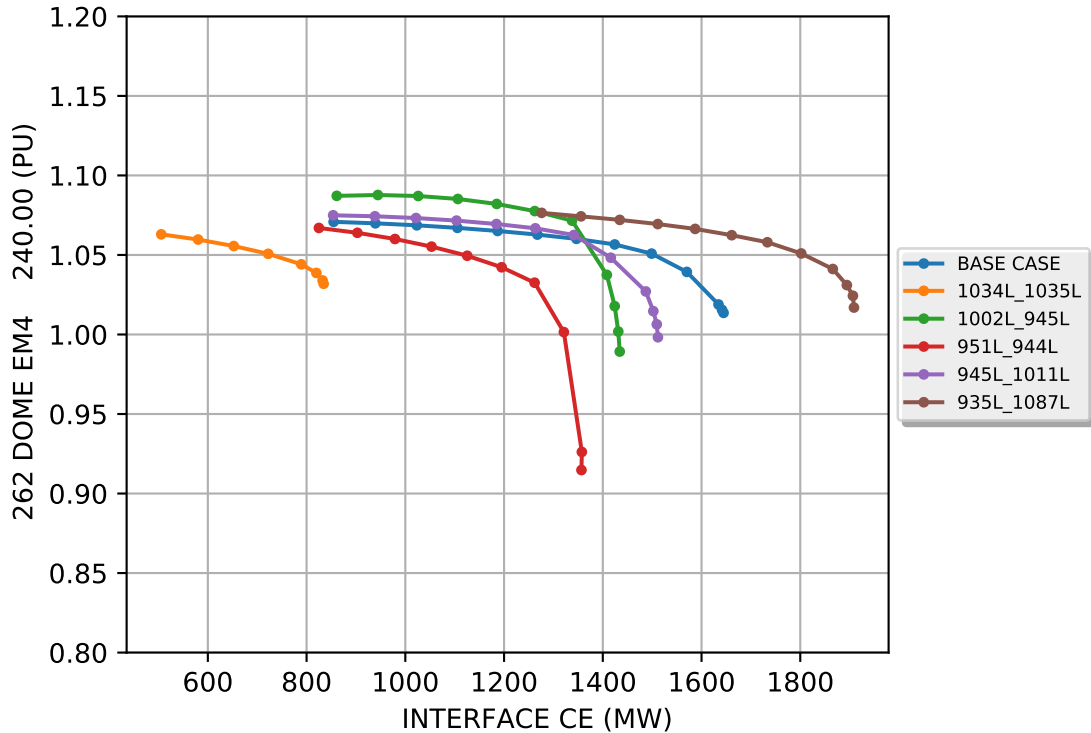


Figure: E-5-167

Case: H2, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 49.6%

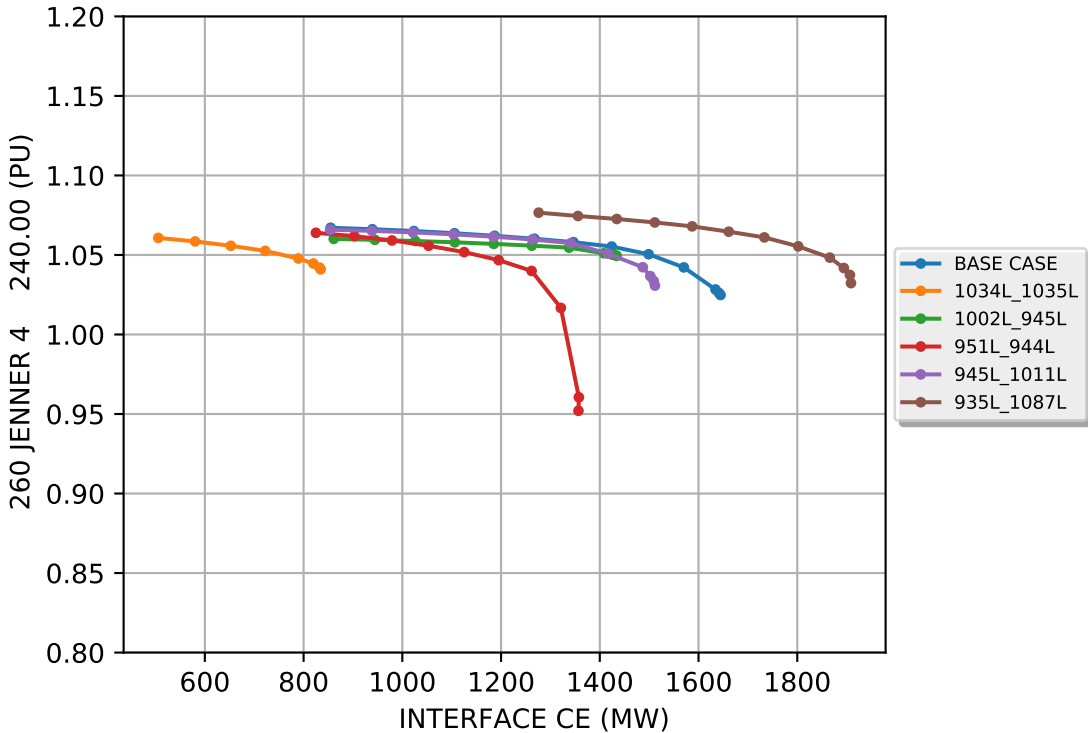


Figure: E-5-168

Case: H2, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 49.6%

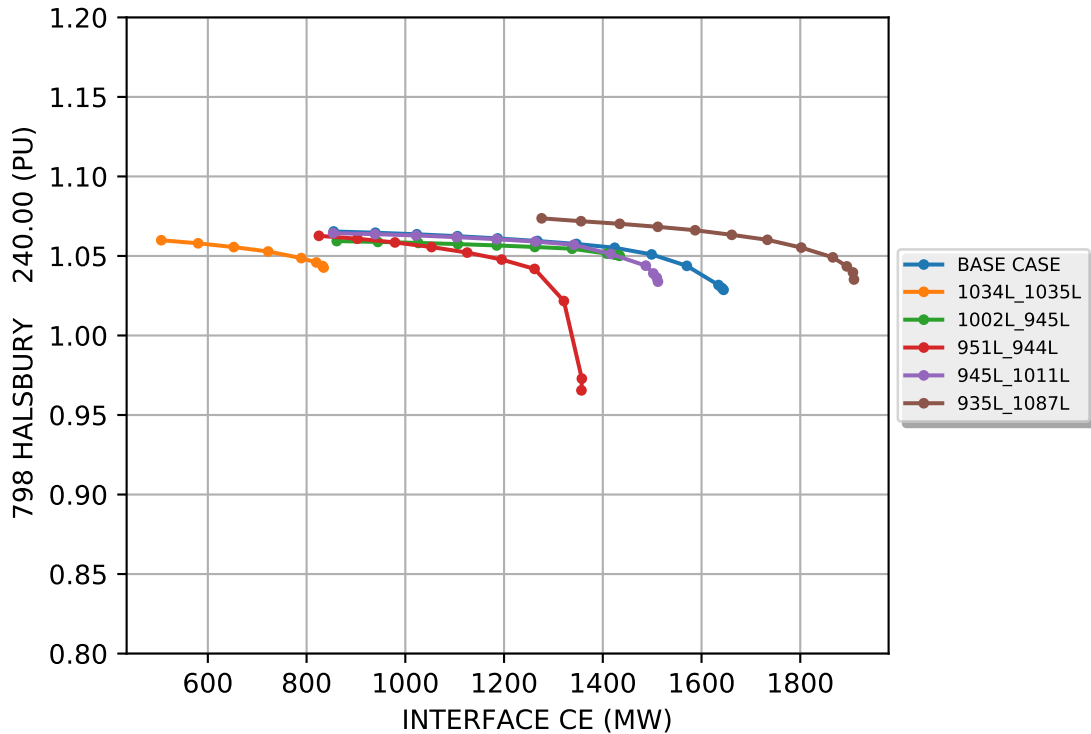


Figure: E-5-169

Case: M4, Option: BOTH

Min Voltage: 0.87 PU, Min Margin: 34.4%

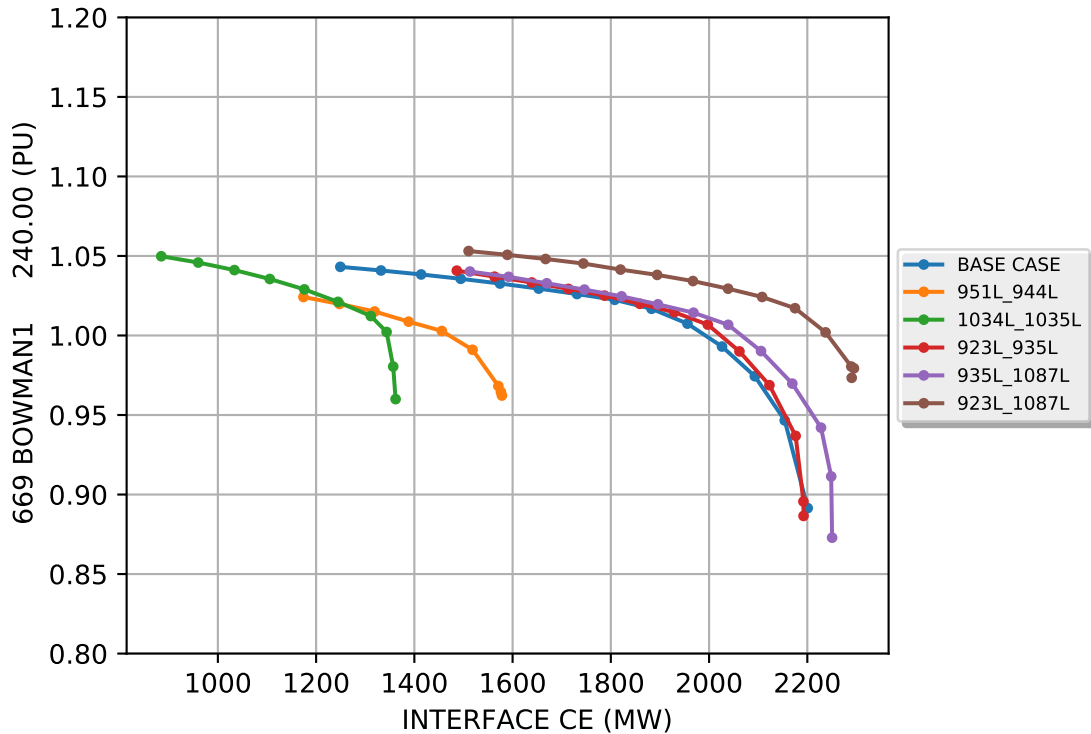


Figure: E-5-170

Case: M4, Option: BOTH

Min Voltage: 0.87 PU, Min Margin: 34.4%

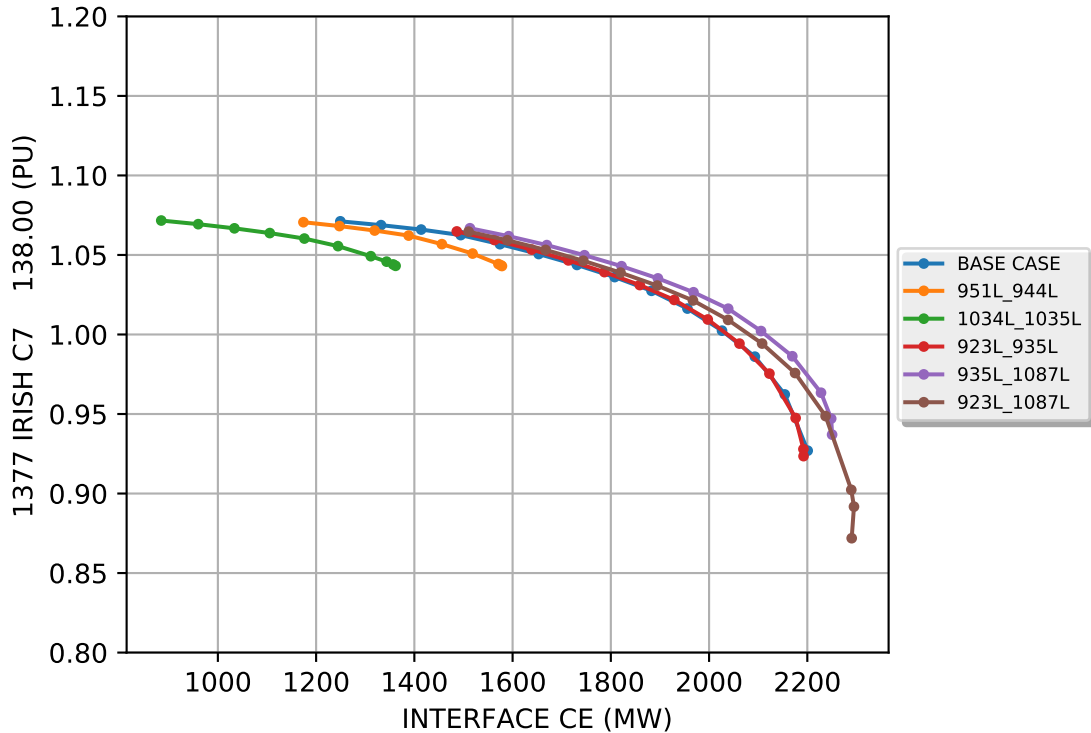


Figure: E-5-171

Case: M4, Option: BOTH

Min Voltage: 0.83 PU, Min Margin: 34.4%

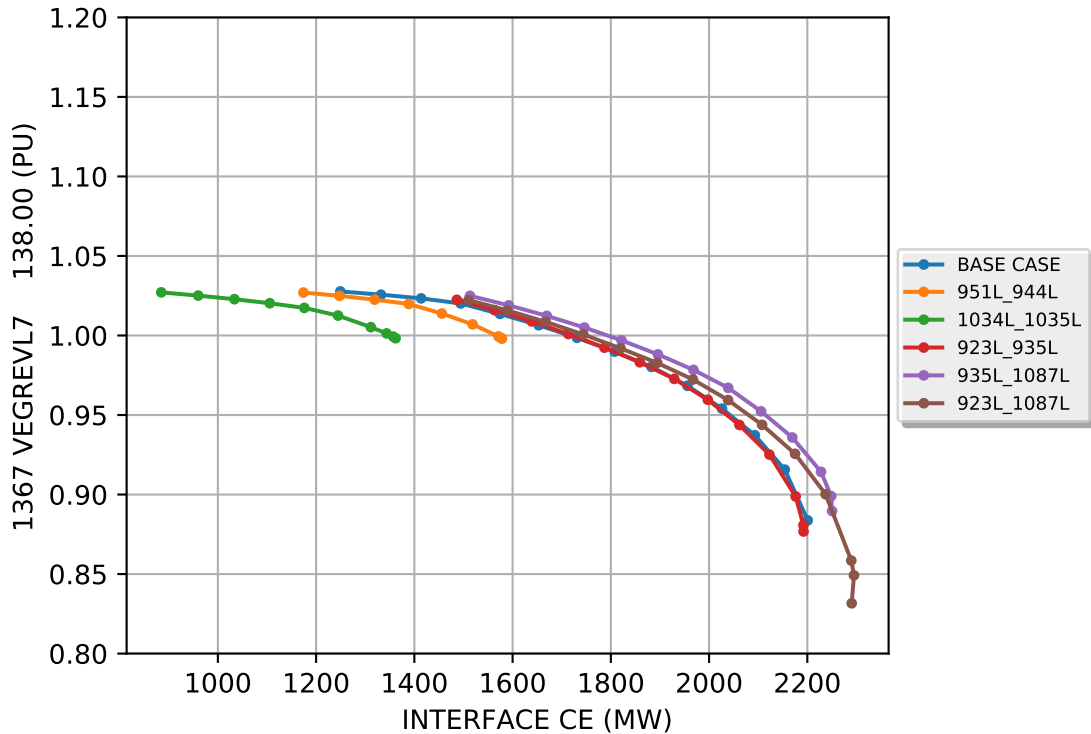


Figure: E-5-172

Case: M4, Option: BOTH

Min Voltage: 0.88 PU, Min Margin: 34.4%

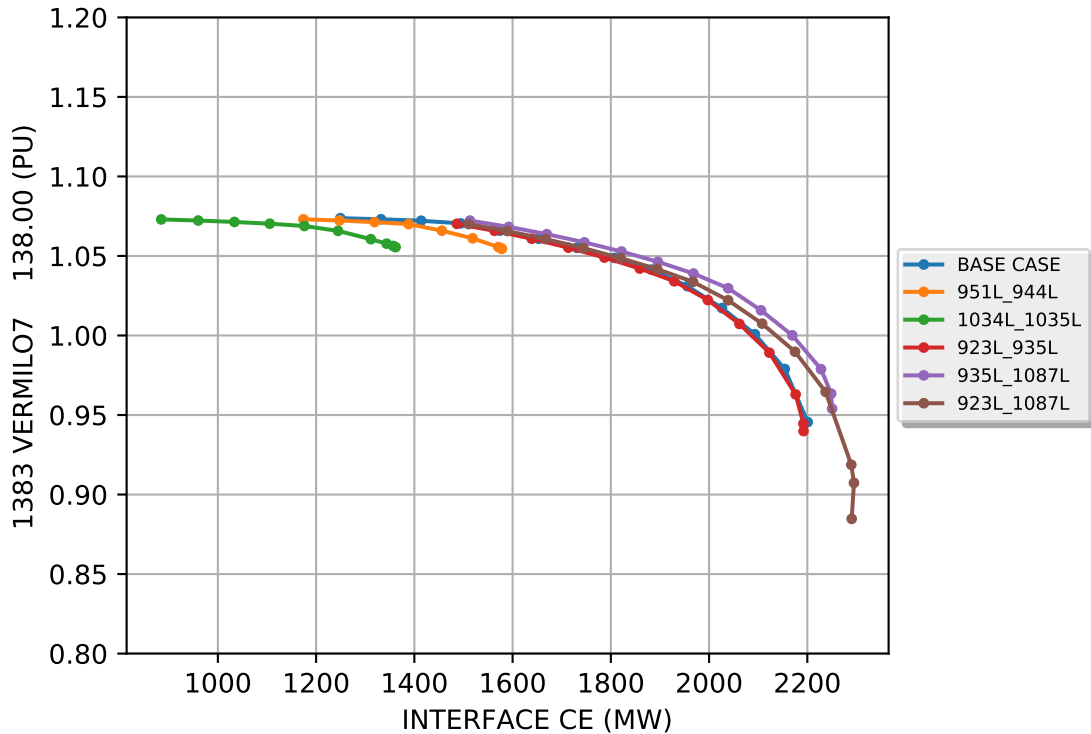


Figure: E-5-173

Case: M4, Option: BOTH

Min Voltage: 0.85 PU, Min Margin: 34.4%

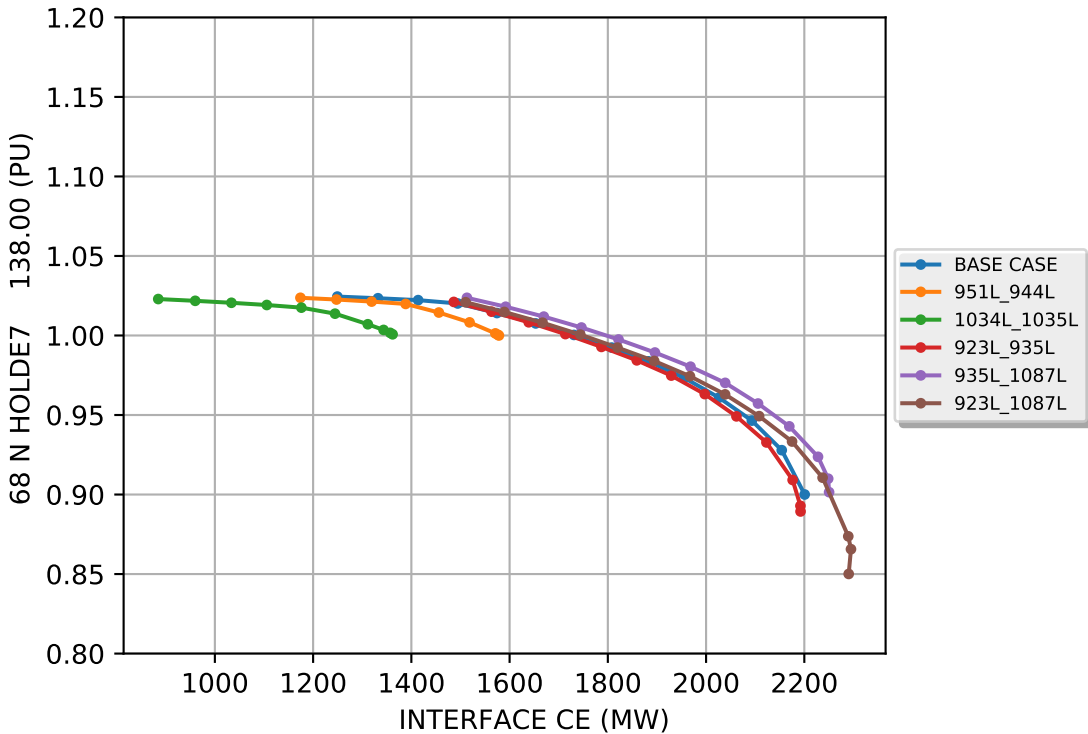


Figure: E-5-174

Case: M4, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 34.4%

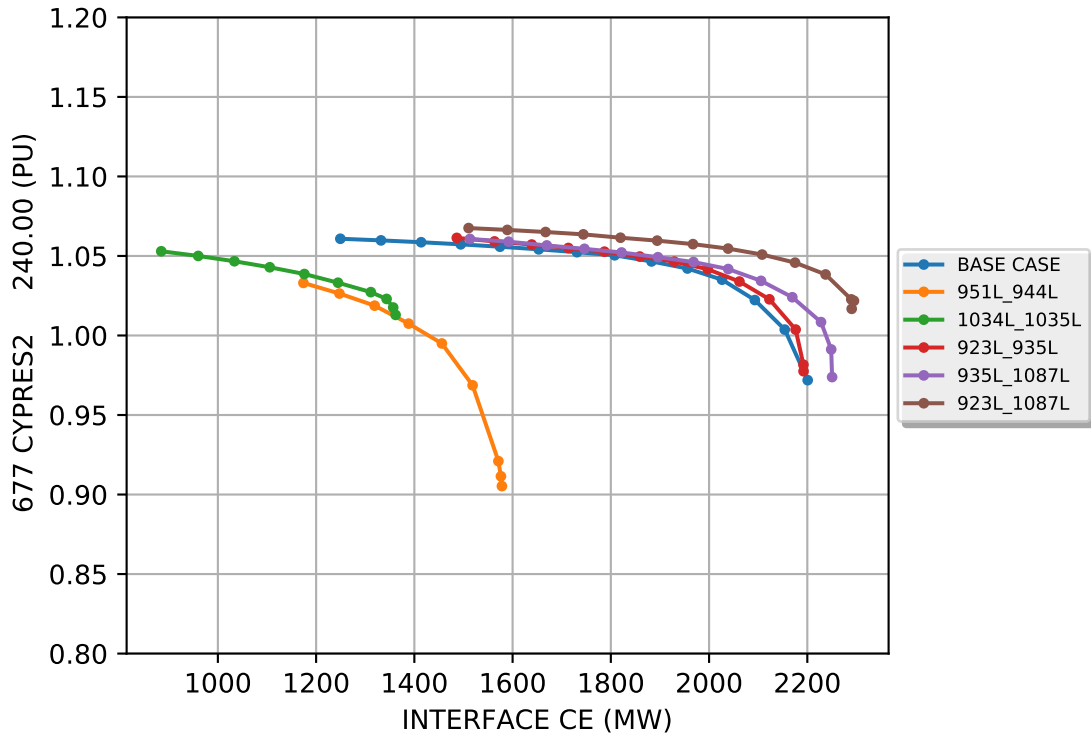


Figure: E-5-175

Case: M4, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 34.4%

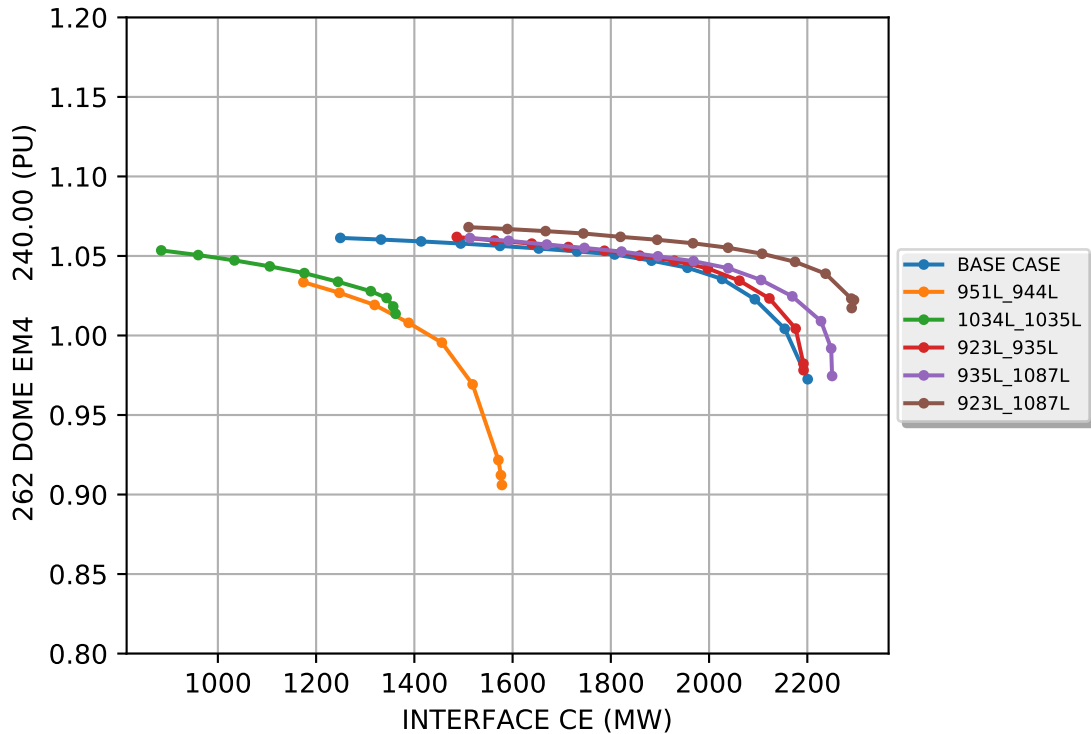


Figure: E-5-176

Case: M4, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 34.4%

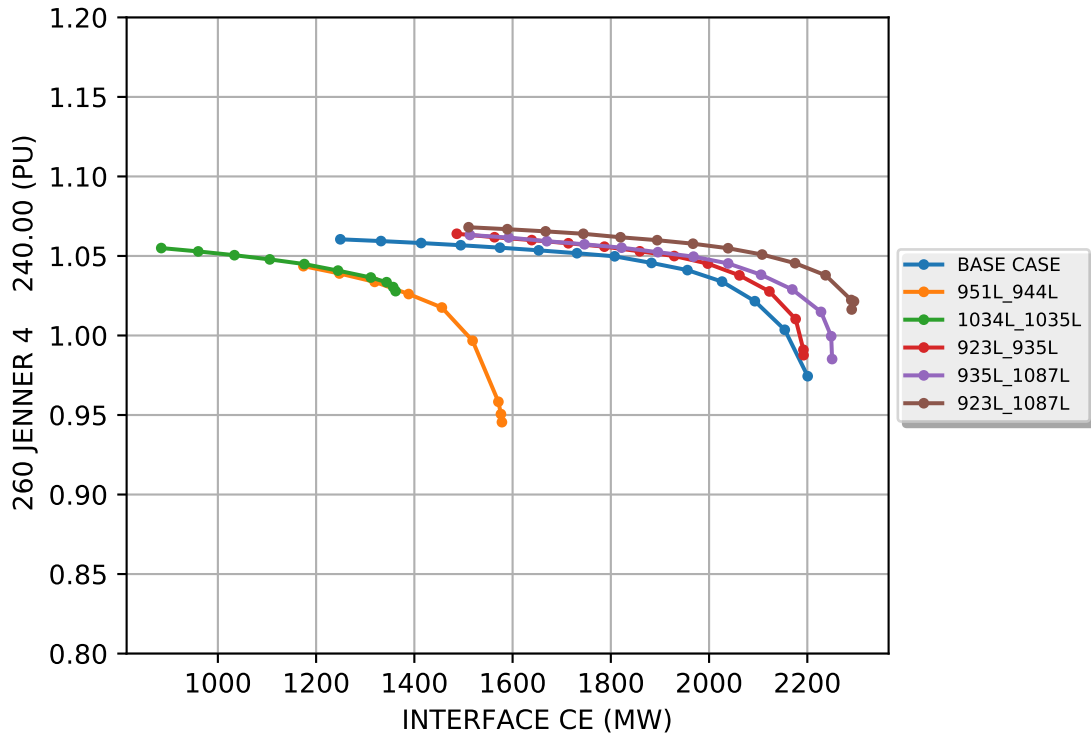


Figure: E-5-177

Case: M4, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 34.4%

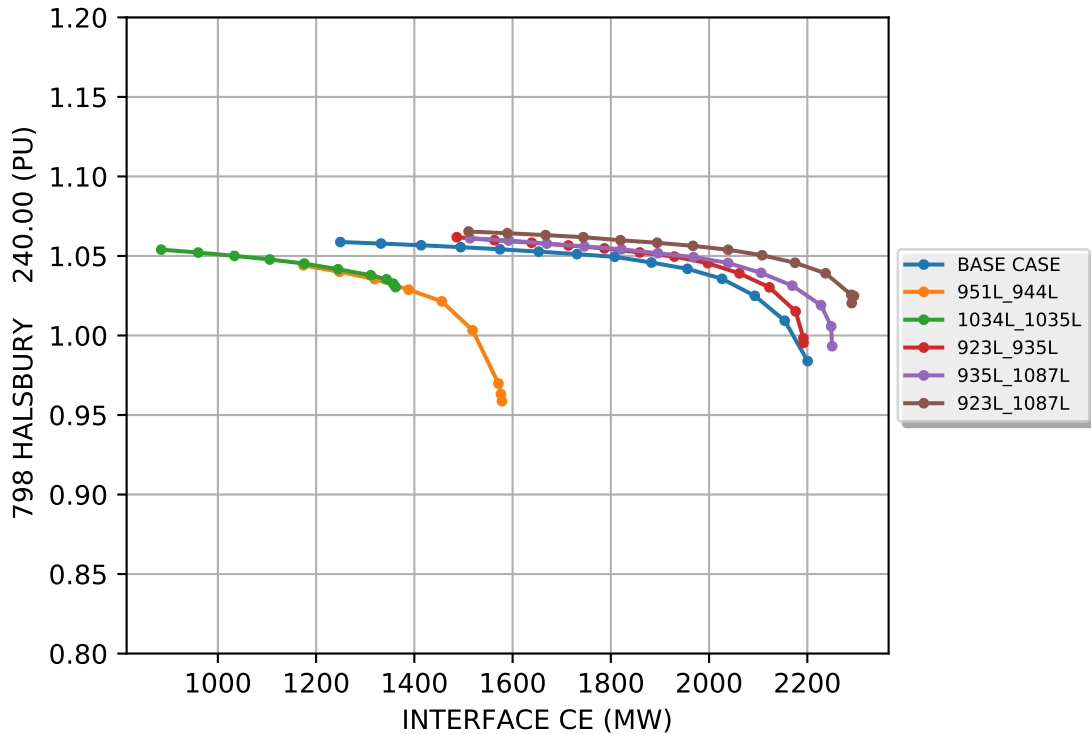


Figure: E-5-178

Case: M4, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 34.4%

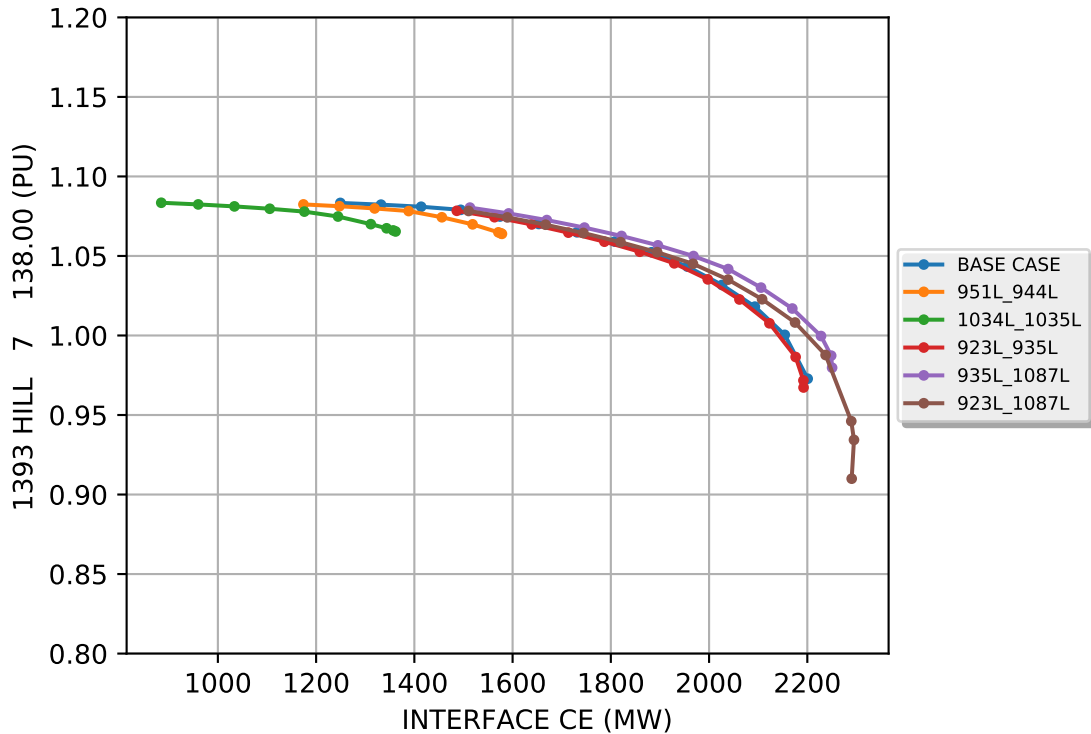


Figure: E-5-179

Case: M1, Option: BOTH

Min Voltage: 0.88 PU, Min Margin: 92.1%

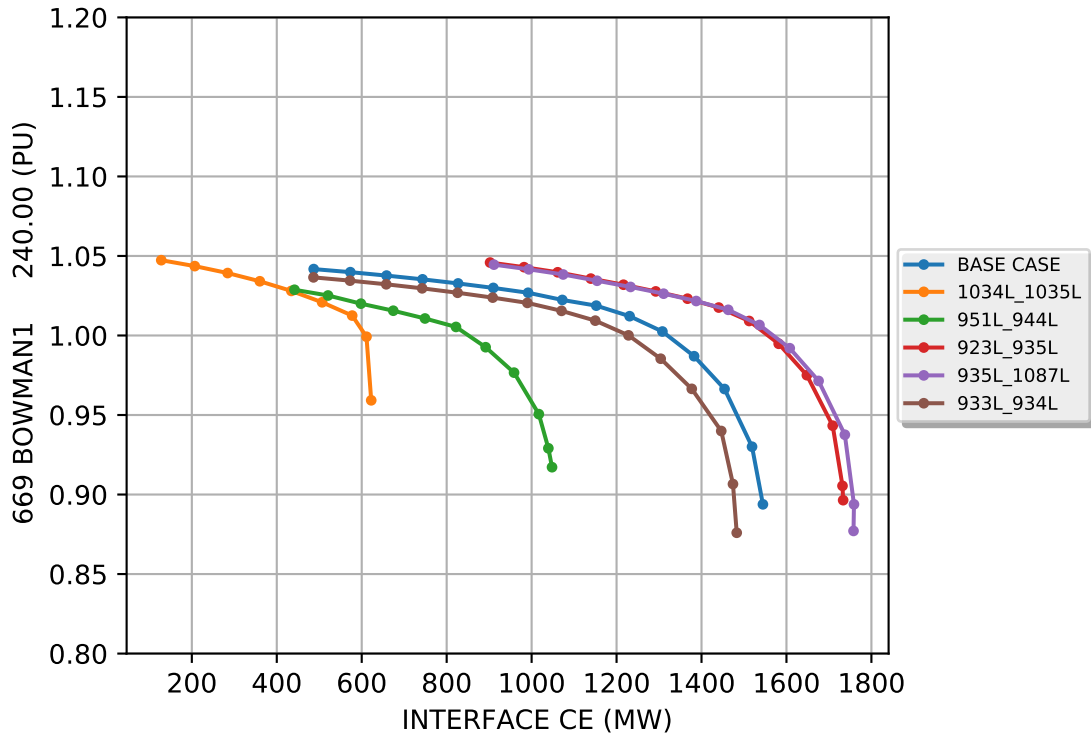


Figure: E-5-180

Case: M1, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 92.1%

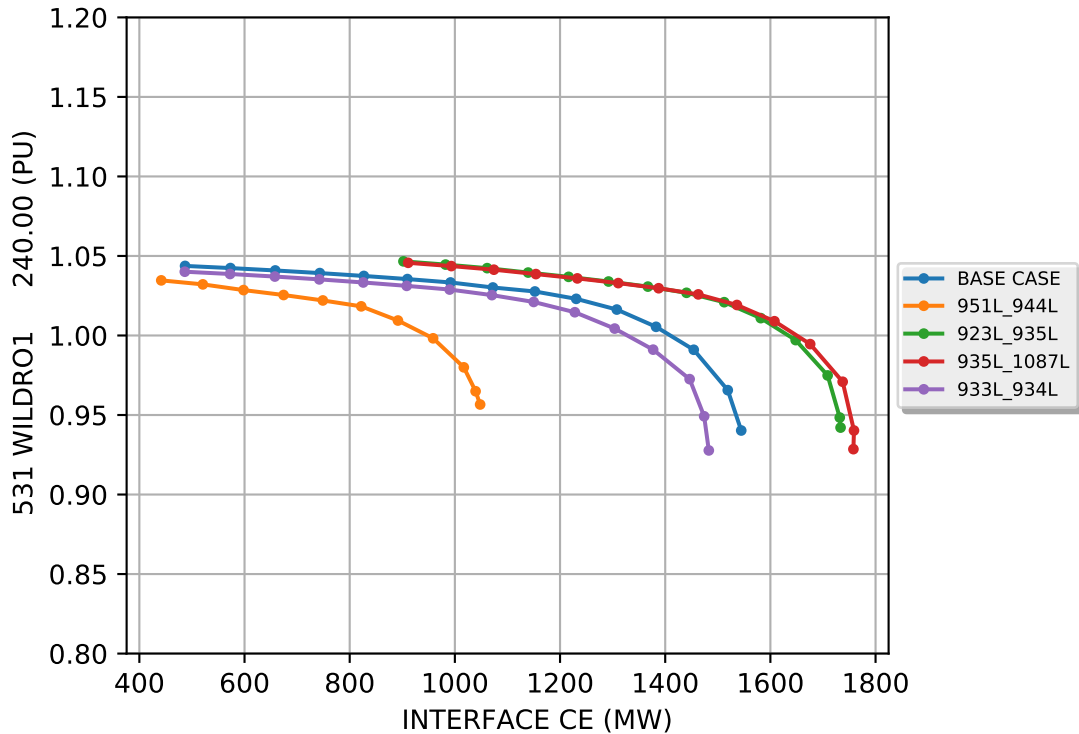


Figure: E-5-181

Case: M1, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 92.1%

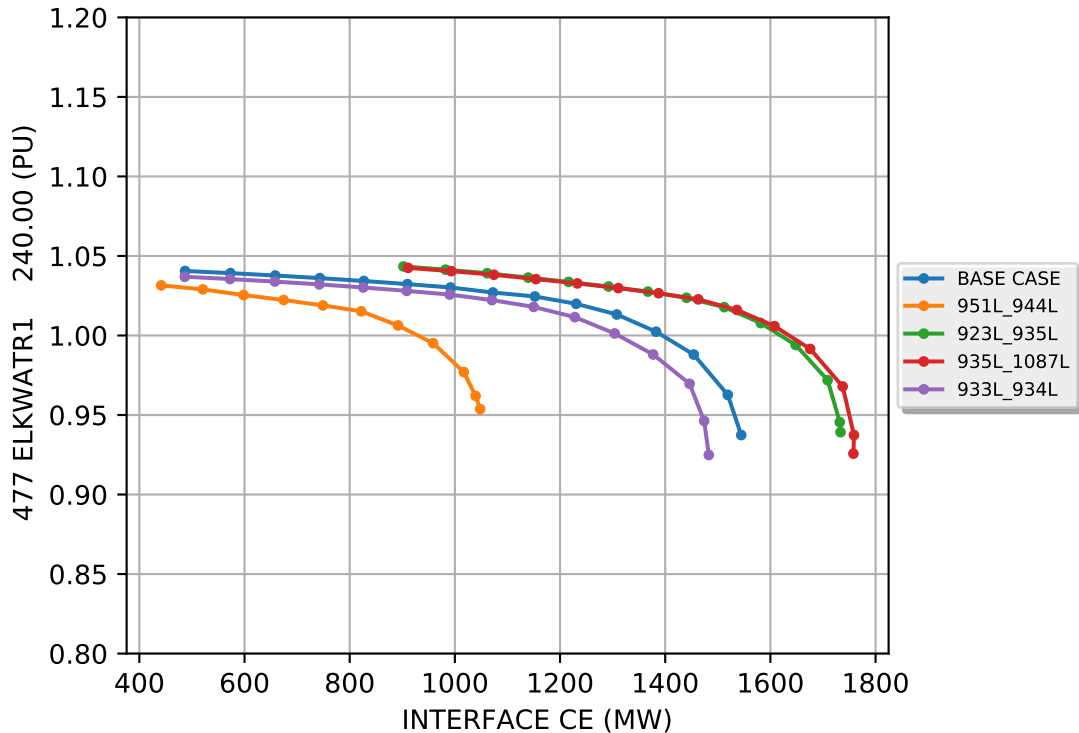


Figure: E-5-182

Case: M1, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 92.1%

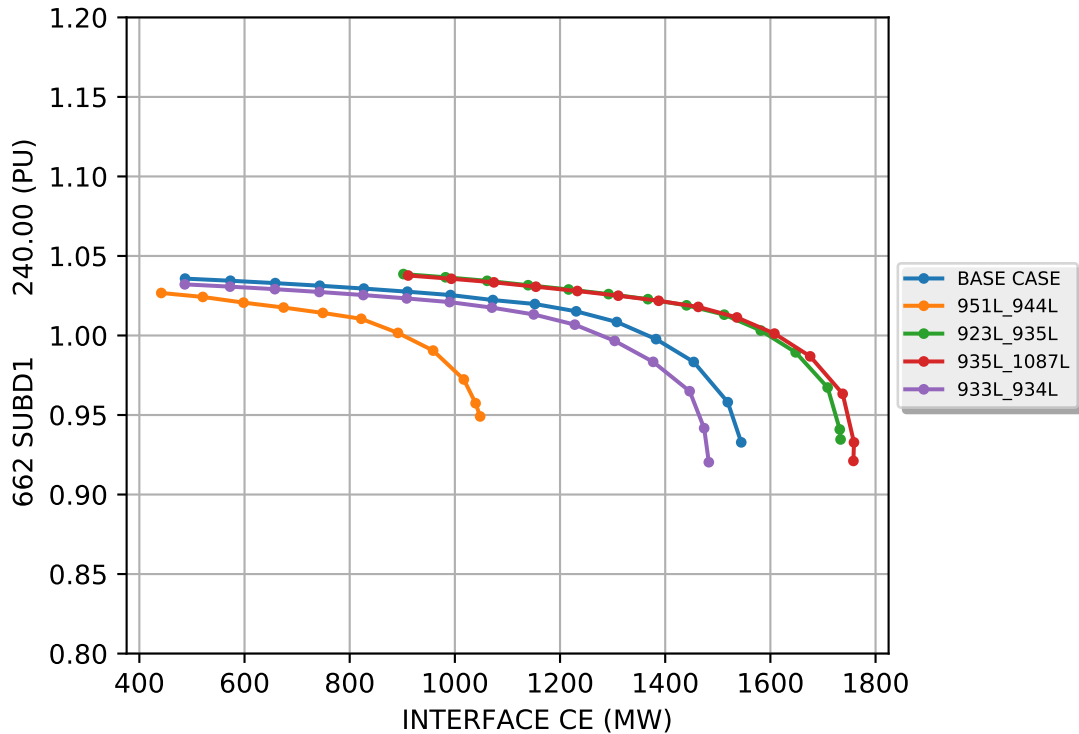


Figure: E-5-183

Case: M1, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 92.1%

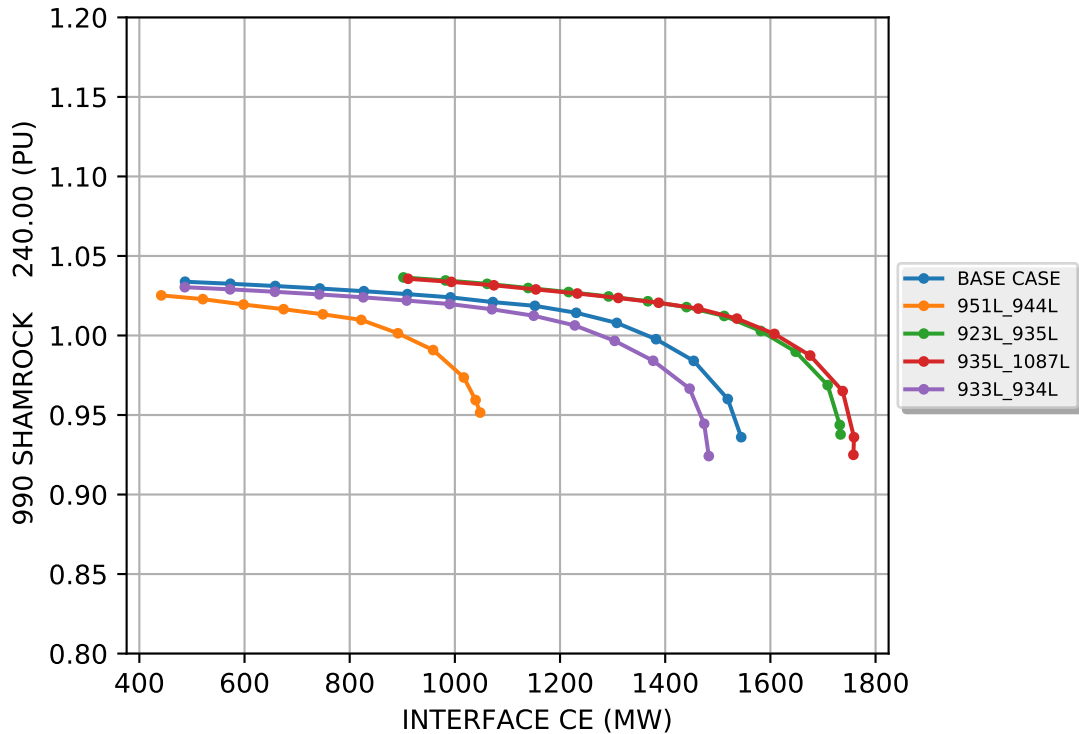


Figure: E-5-184

Case: M1, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 92.1%

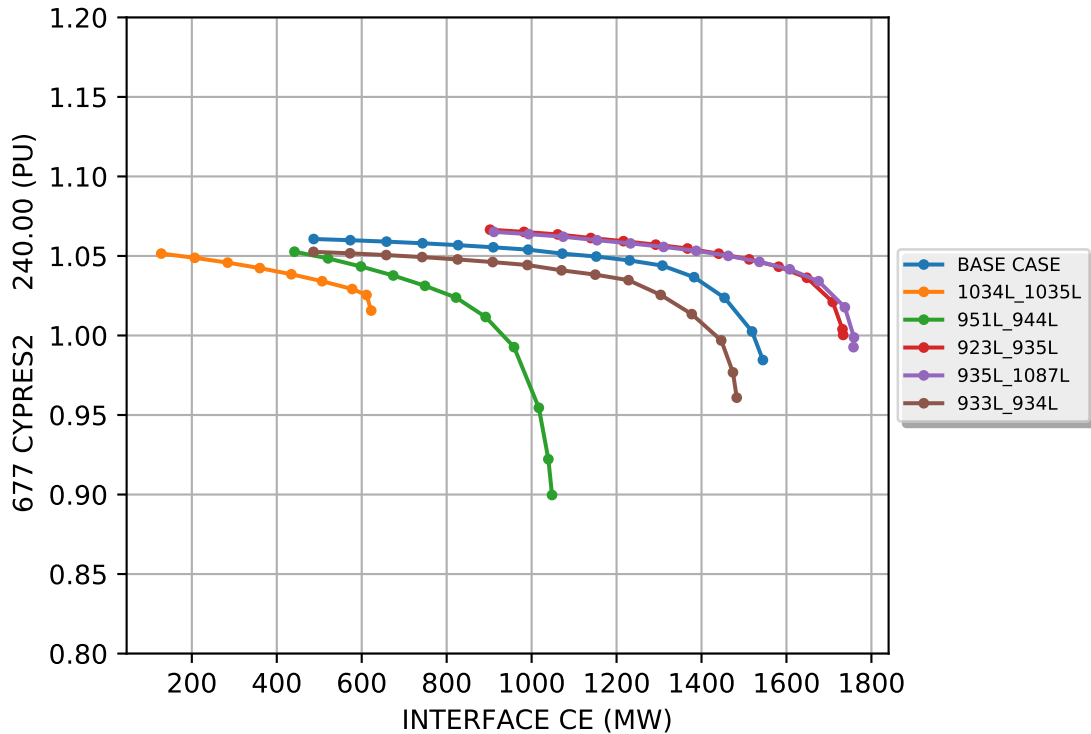


Figure: E-5-185

Case: M1, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 92.1%

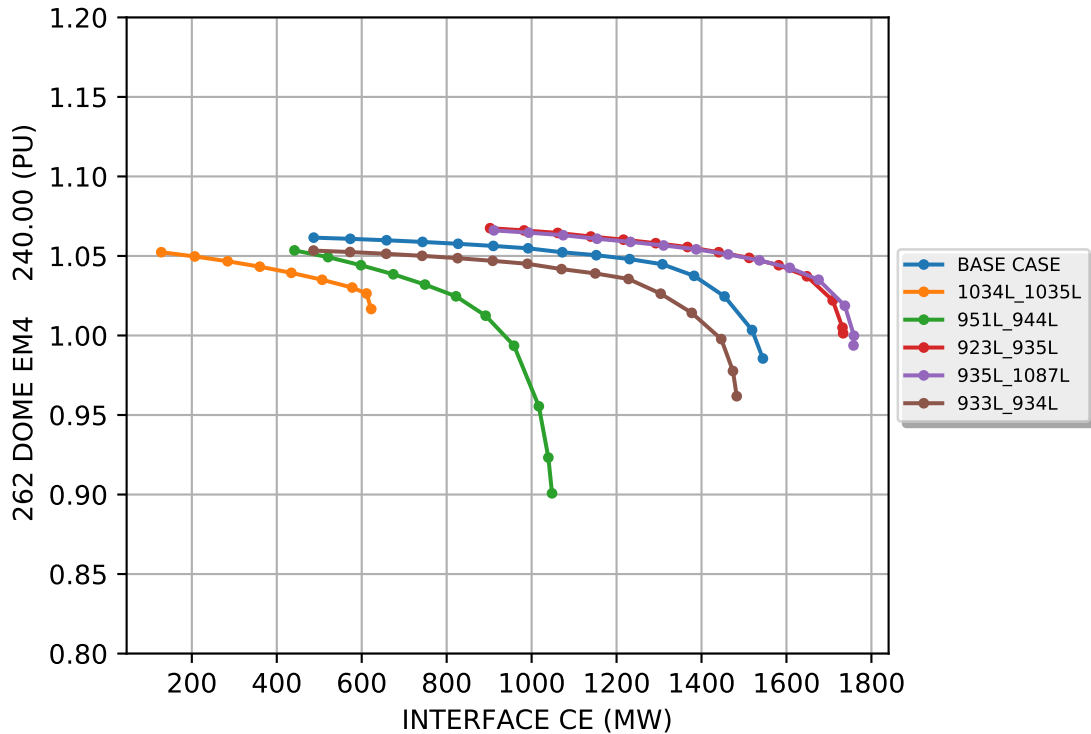


Figure: E-5-186

Case: M1, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 92.1%

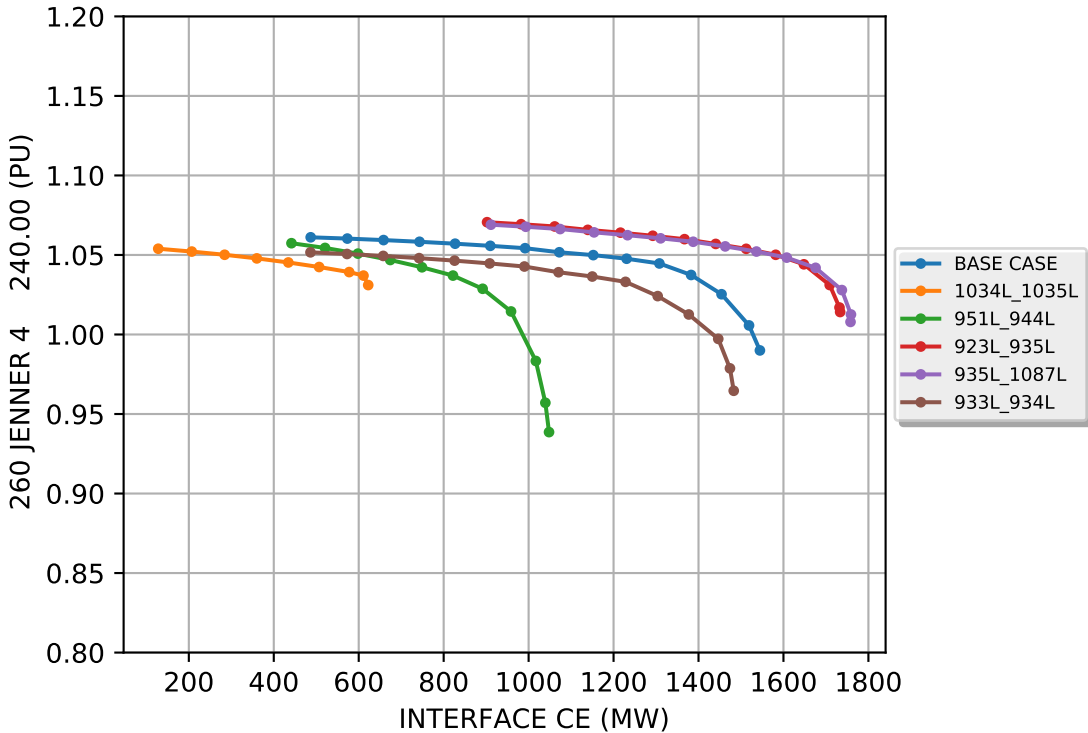


Figure: E-5-187

Case: M1, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 92.1%

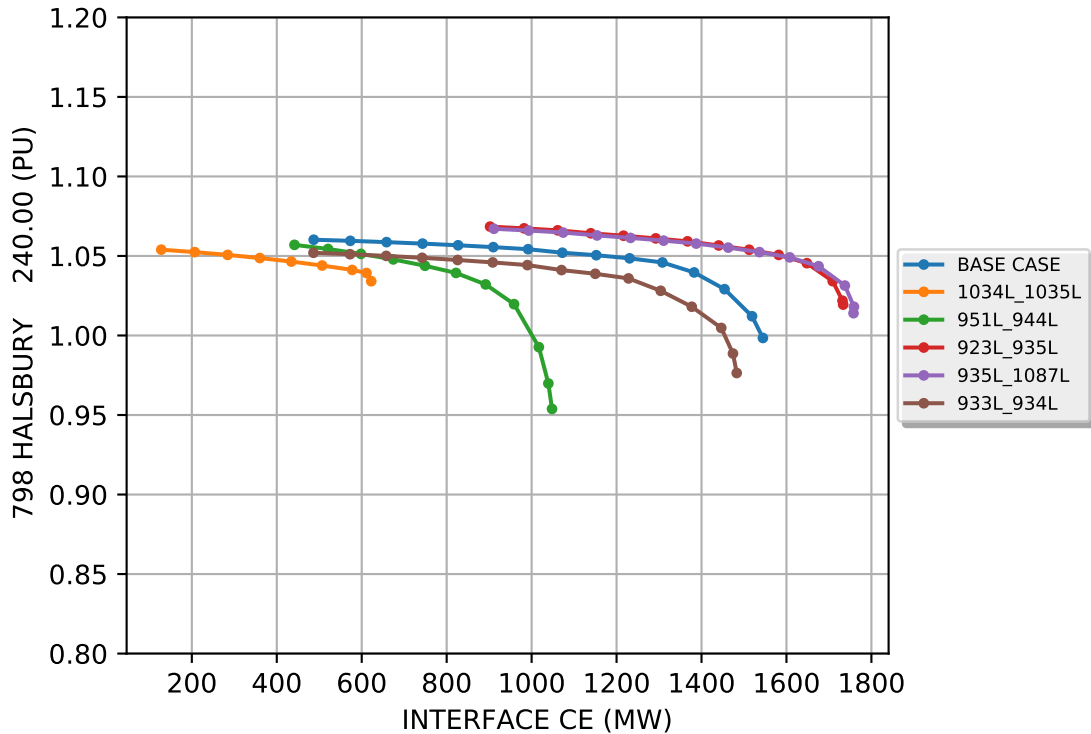


Figure: E-5-189

Case: H3, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 62.6%

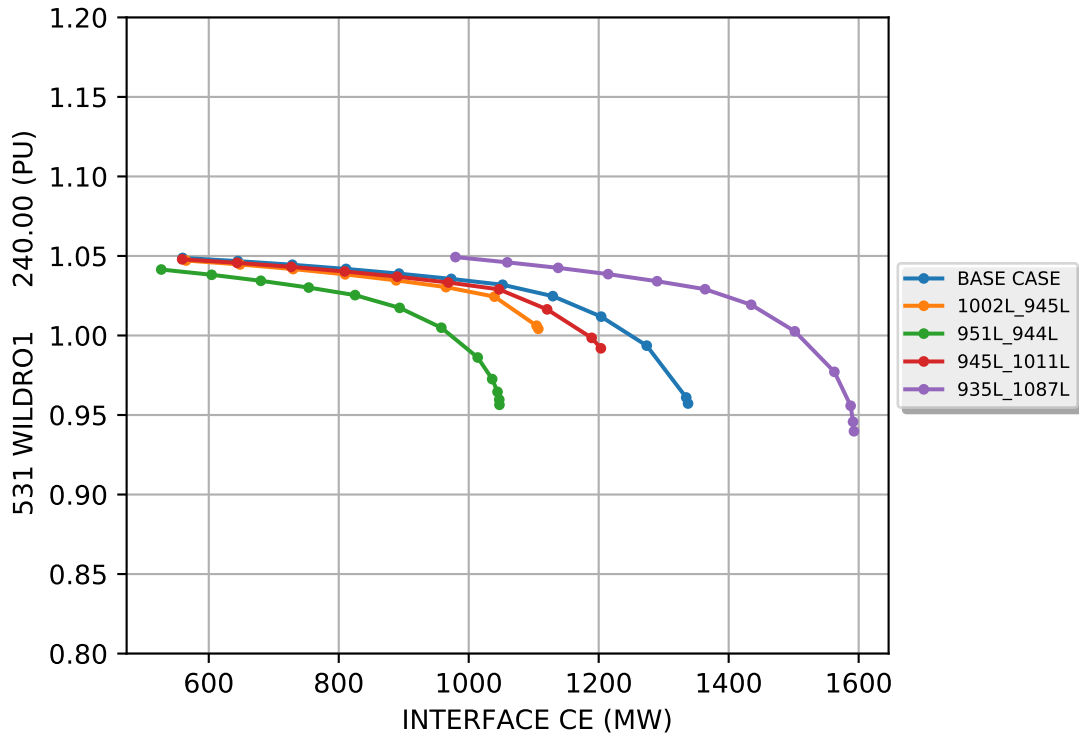


Figure: E-5-190

Case: H3, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 62.6%

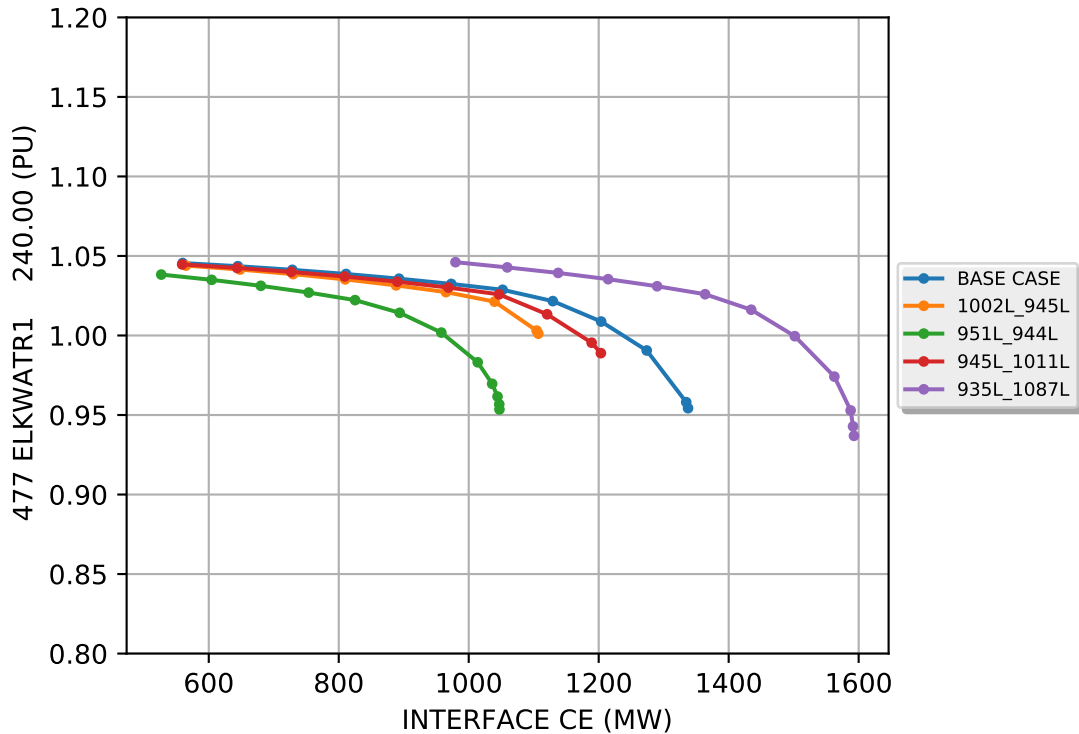


Figure: E-5-191

Case: H3, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 62.6%

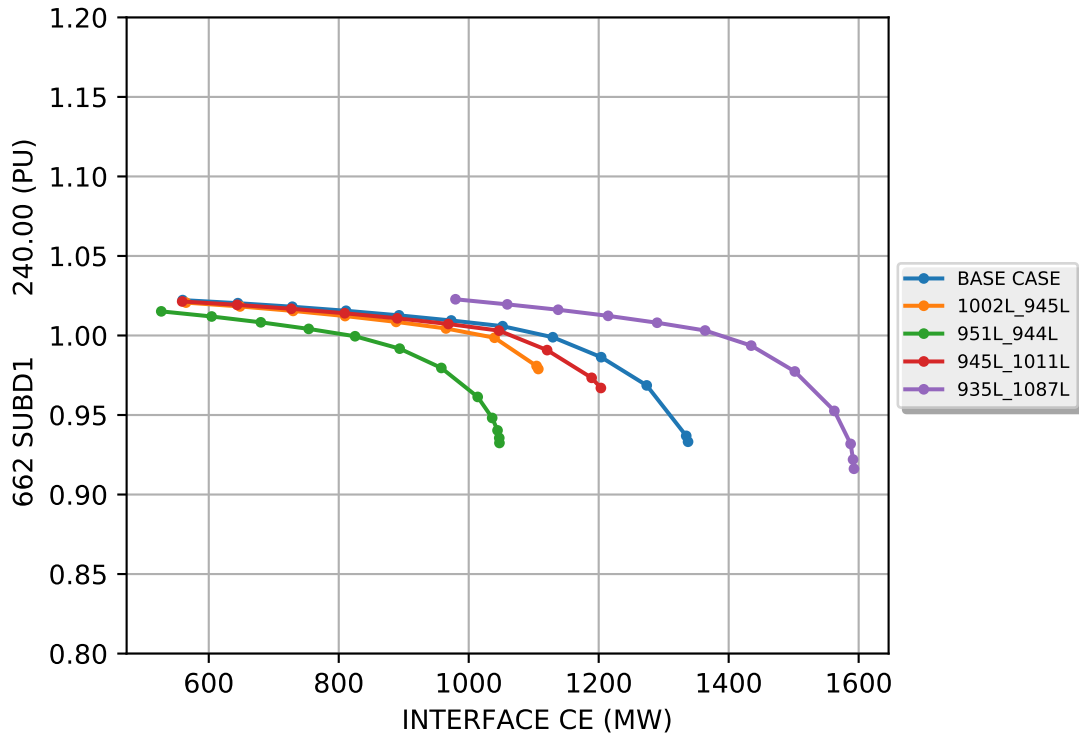


Figure: E-5-192

Case: H3, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 62.6%

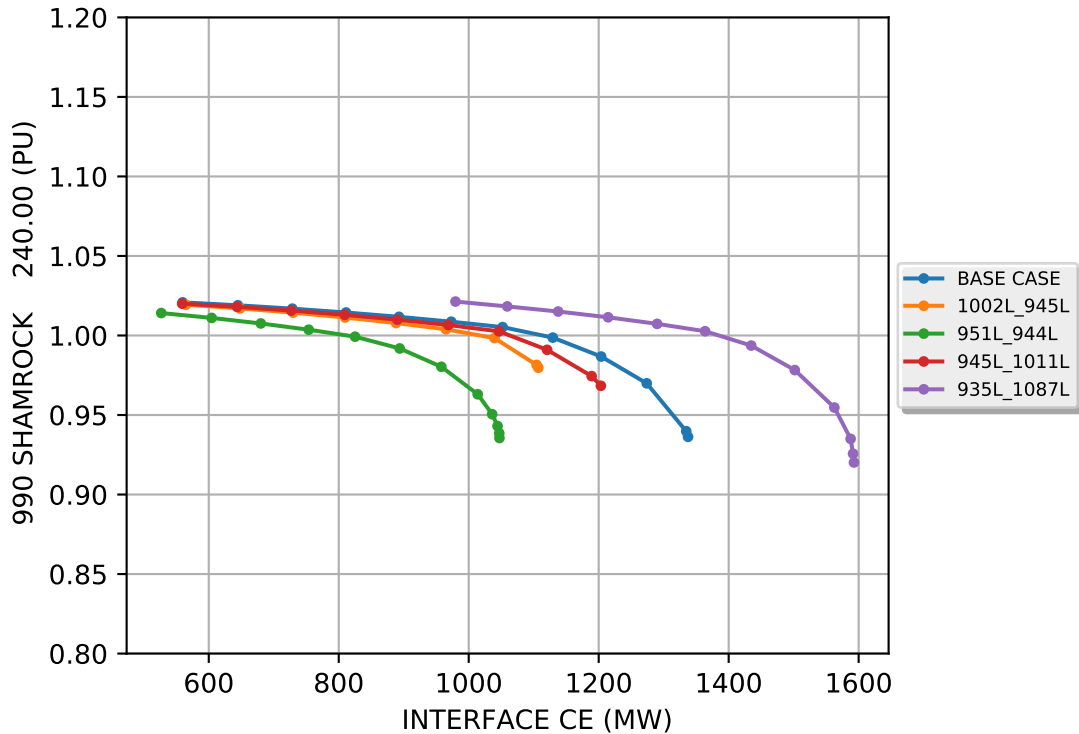


Figure: E-5-193

Case: H3, Option: BOTH

Min Voltage: 0.89 PU, Min Margin: 62.6%

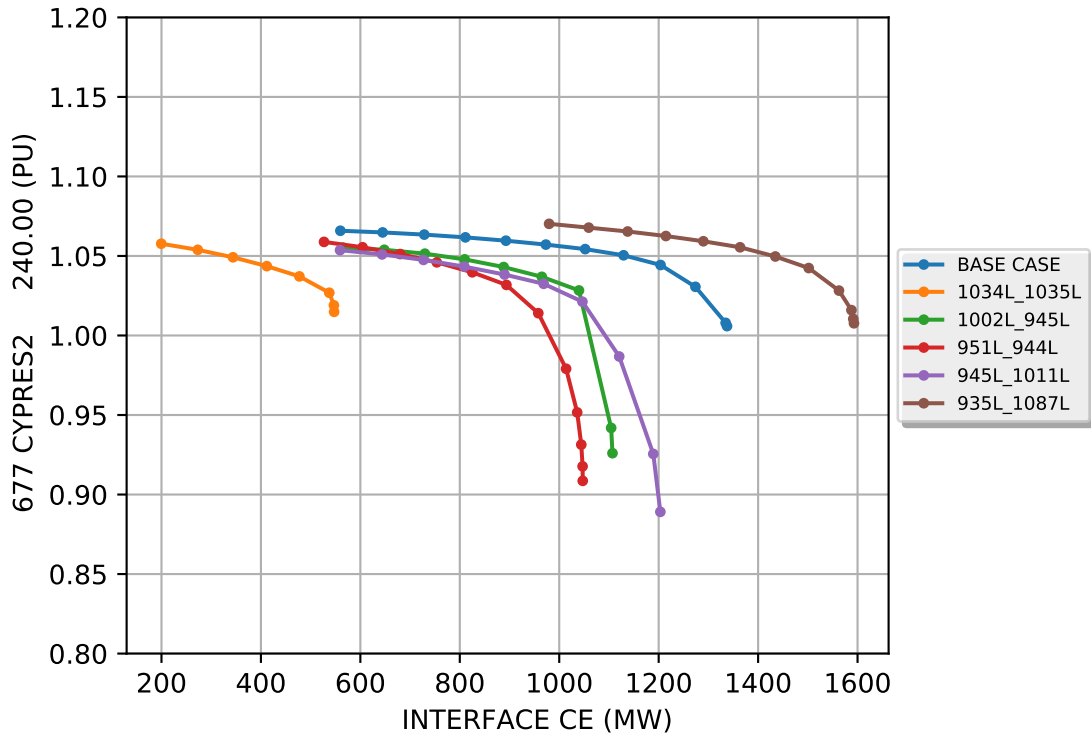


Figure: E-5-194

Case: H3, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 62.6%

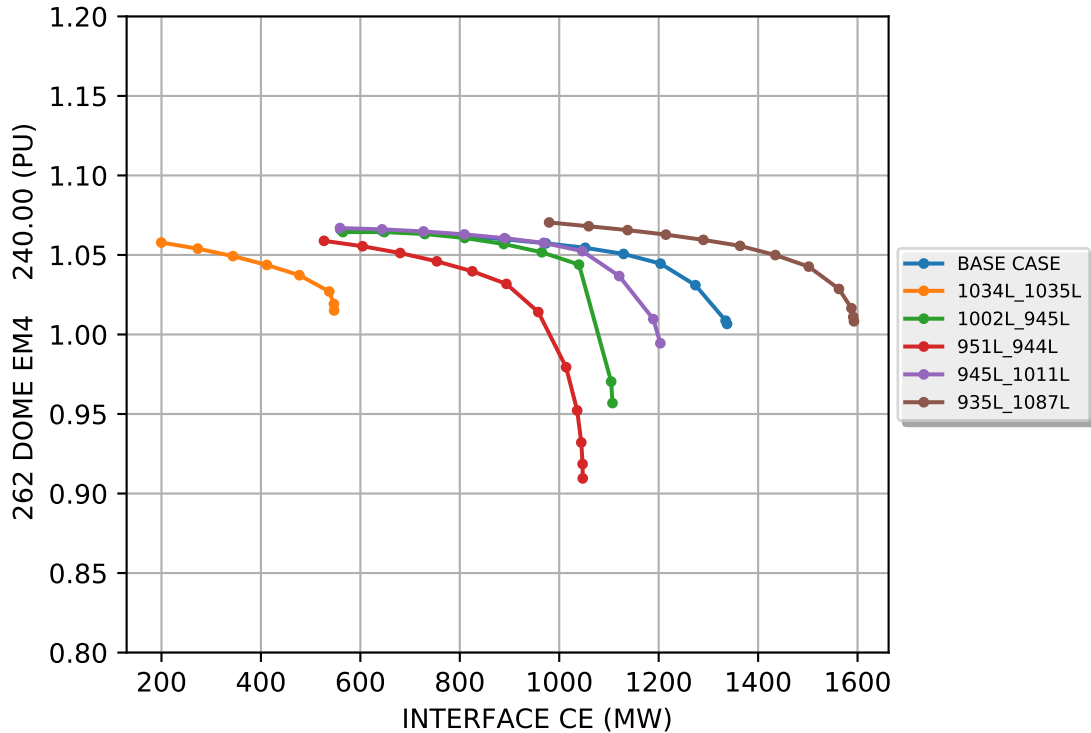


Figure: E-5-195

Case: H3, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 62.6%

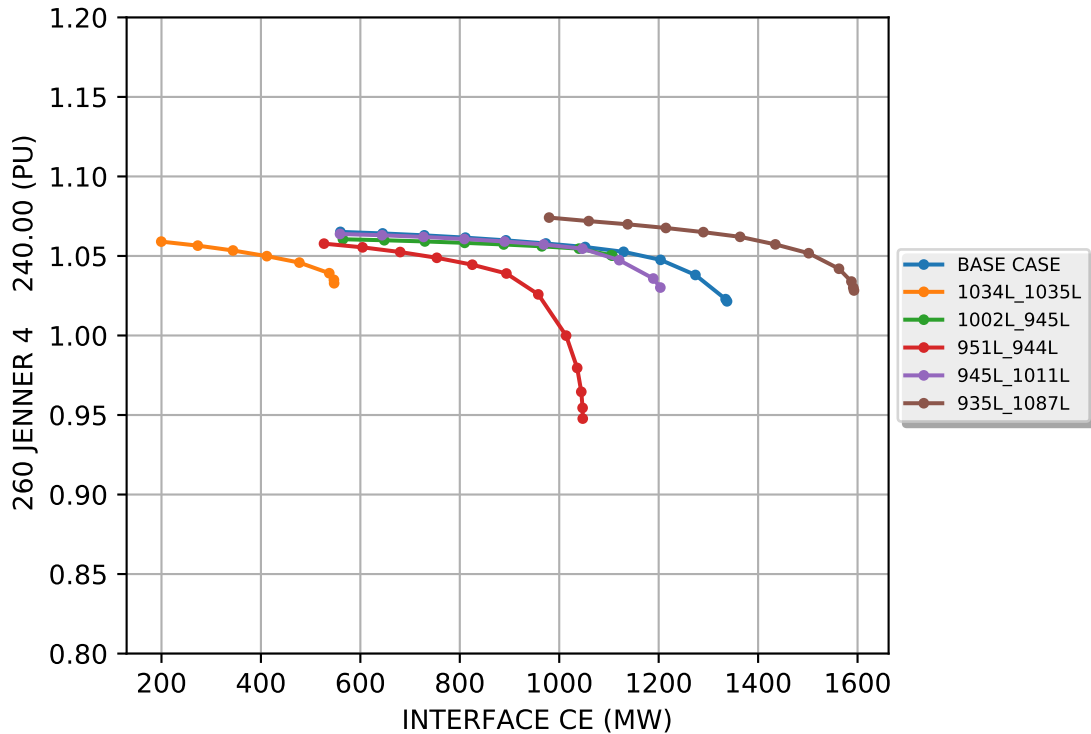


Figure: E-5-196

Case: H3, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 62.6%

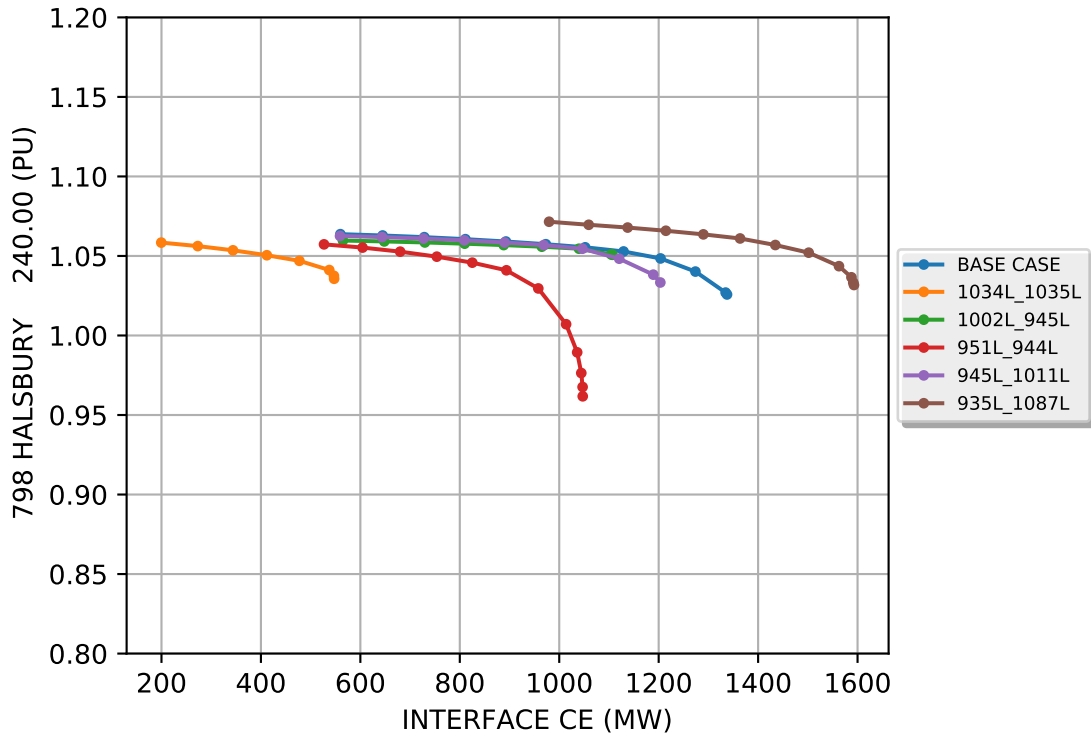


Figure: E-5-197

Case: M5, Option: BOTH

Min Voltage: 0.89 PU, Min Margin: 31.3%

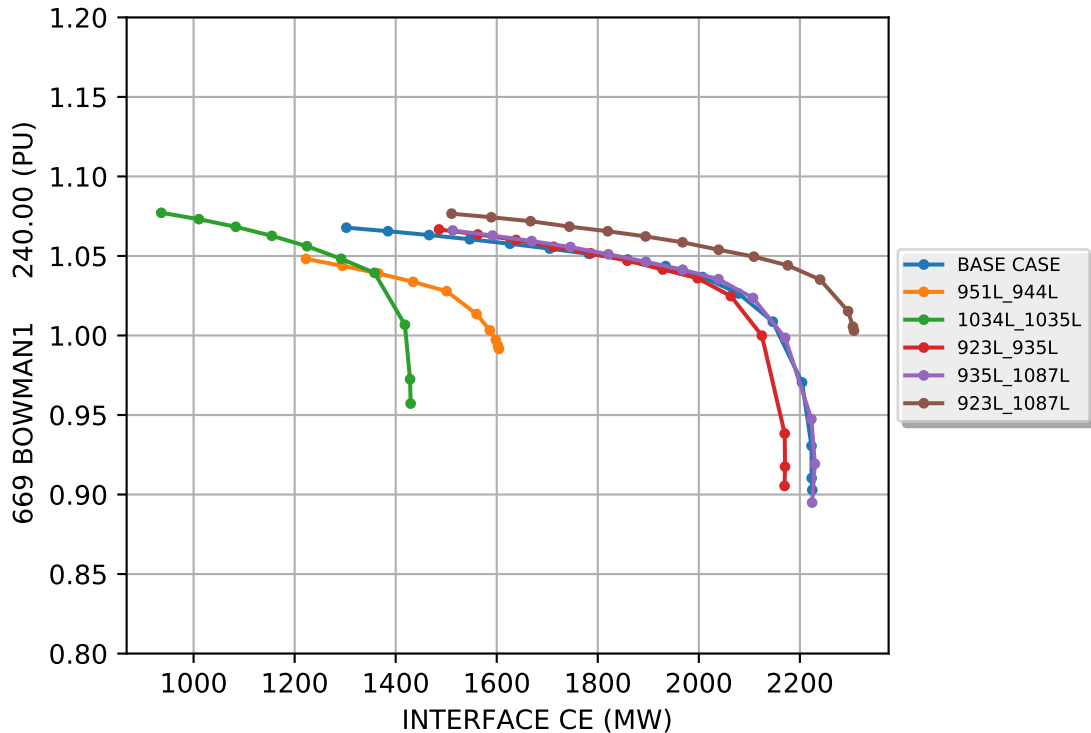


Figure: E-5-198

Case: M5, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 31.3%

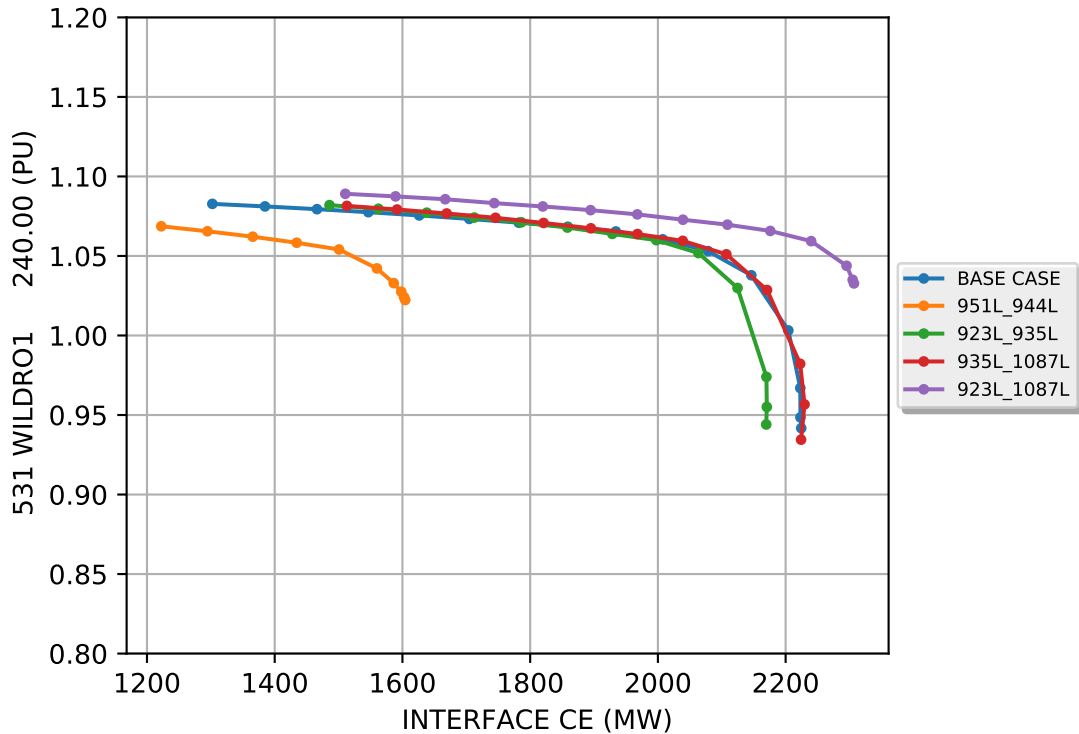


Figure: E-5-199

Case: M5, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 31.3%

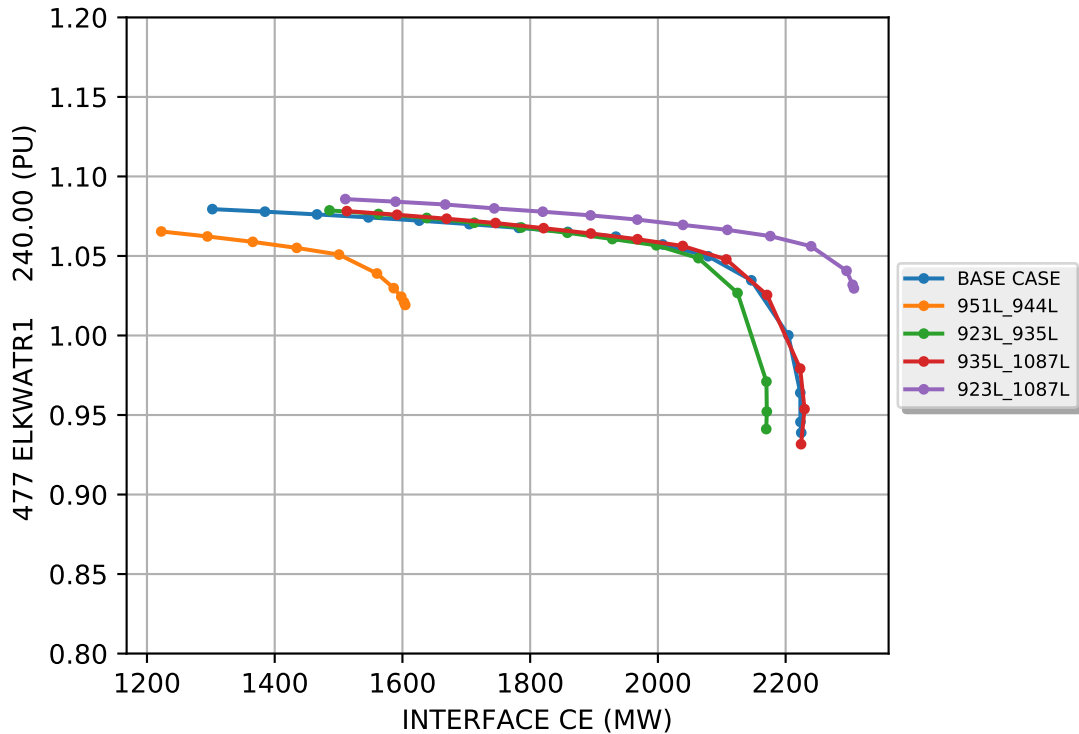


Figure: E-5-200

Case: M5, Option: BOTH

Min Voltage: 0.87 PU, Min Margin: 31.3%

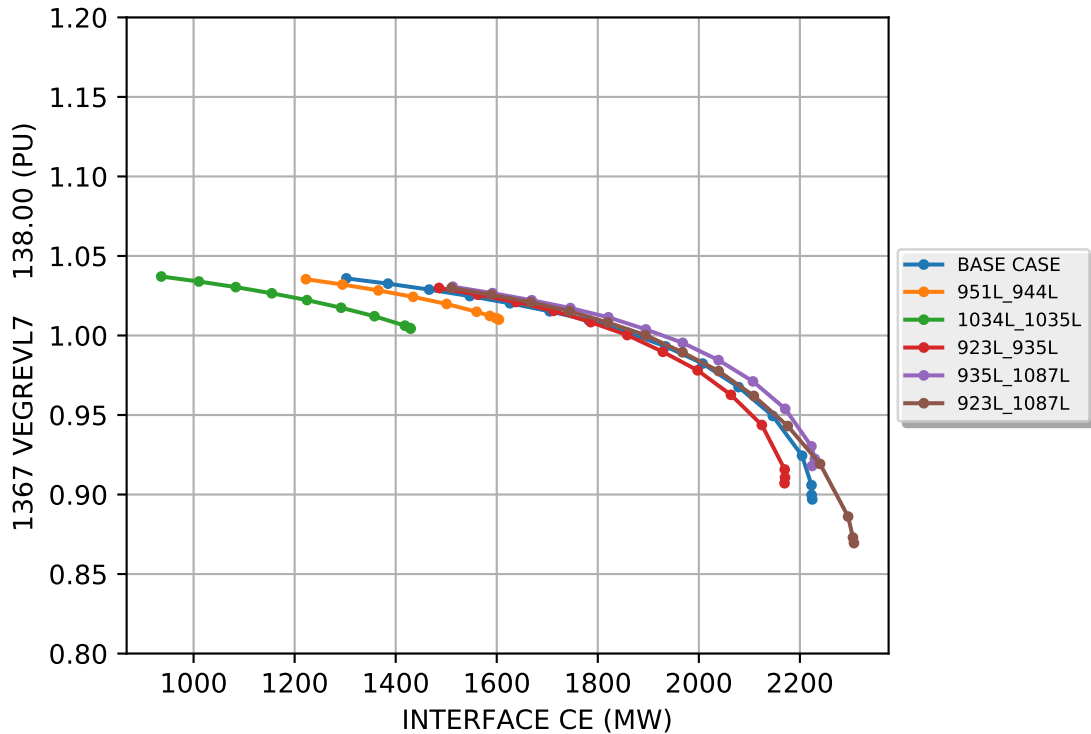


Figure: E-5-201

Case: M5, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 31.3%

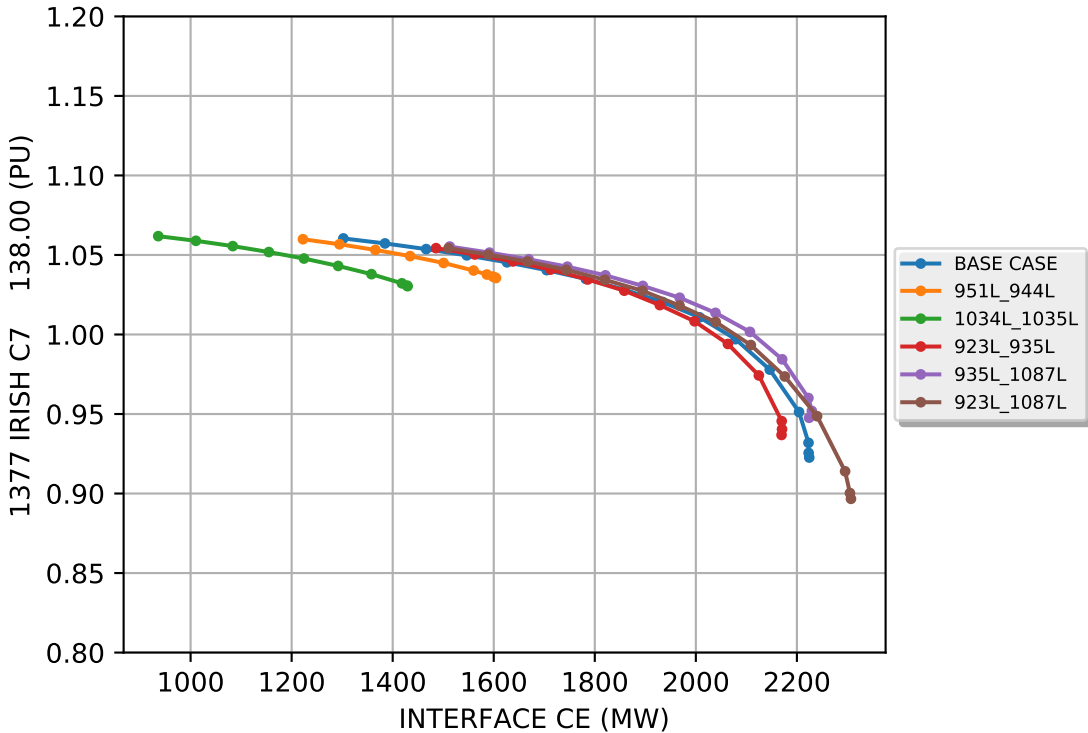


Figure: E-5-202

Case: M5, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 31.3%

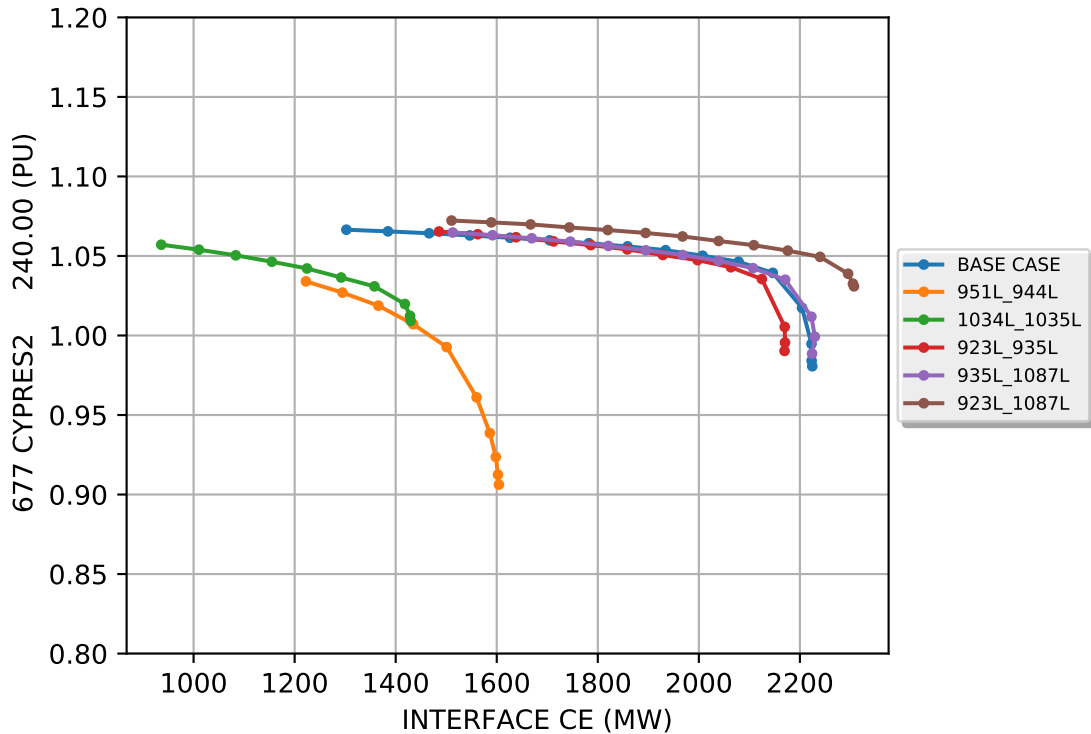


Figure: E-5-203

Case: M5, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 31.3%

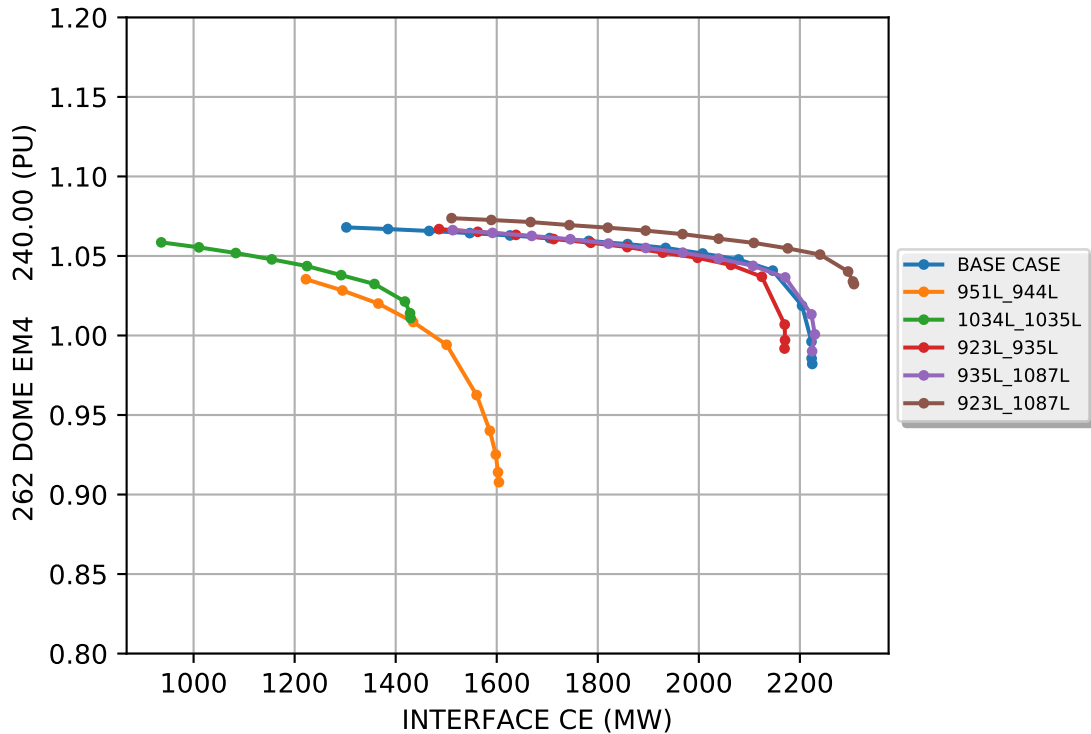


Figure: E-5-204

Case: M5, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 31.3%

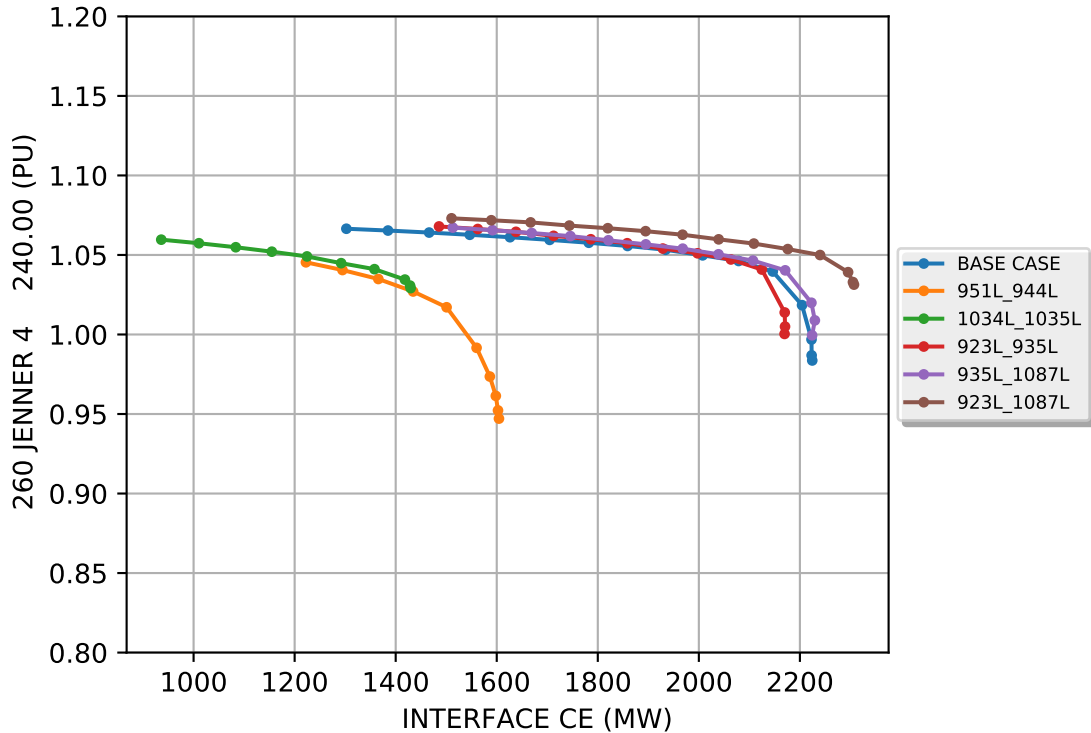


Figure: E-5-205

Case: M5, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 31.3%

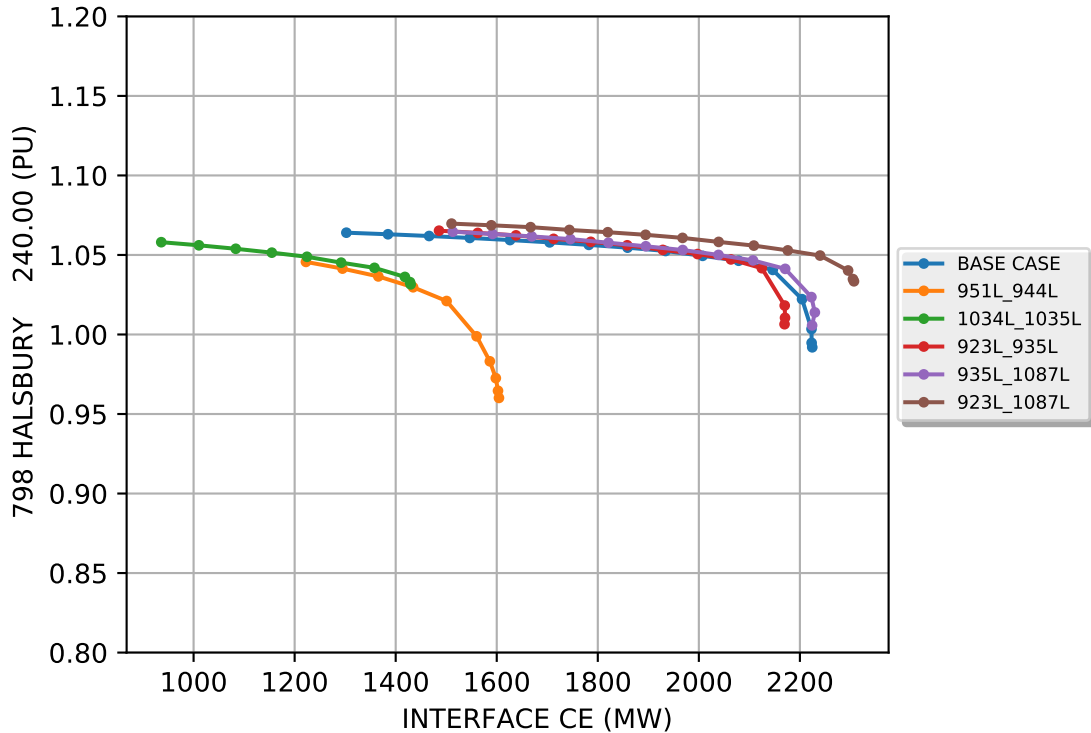


Figure: E-5-206

Case: M5, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 31.3%

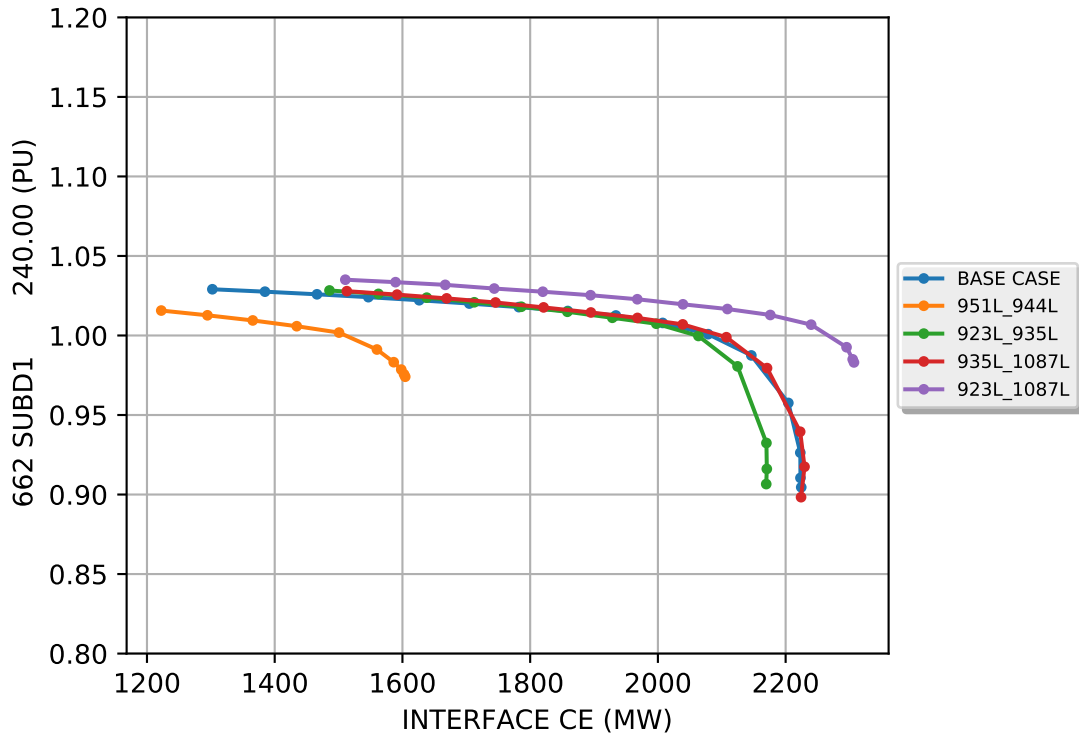


Figure: E-5-207

Case: M5, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 31.3%

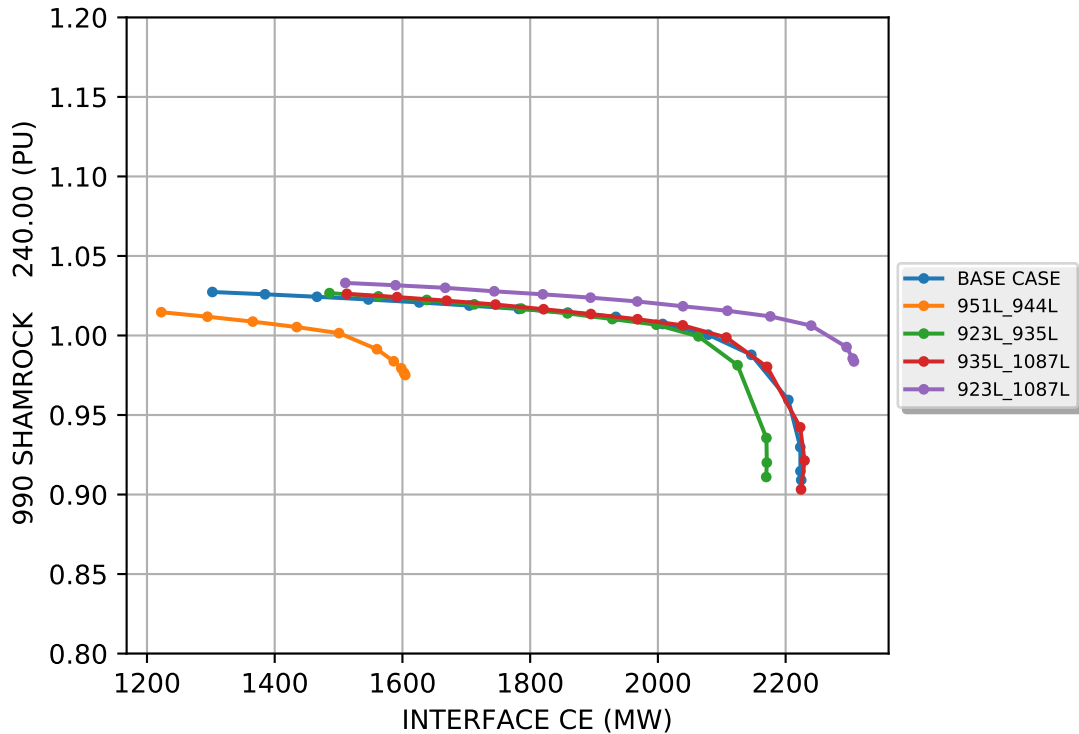


Figure: E-5-208

Case: M5, Option: BOTH

Min Voltage: 0.88 PU, Min Margin: 31.3%

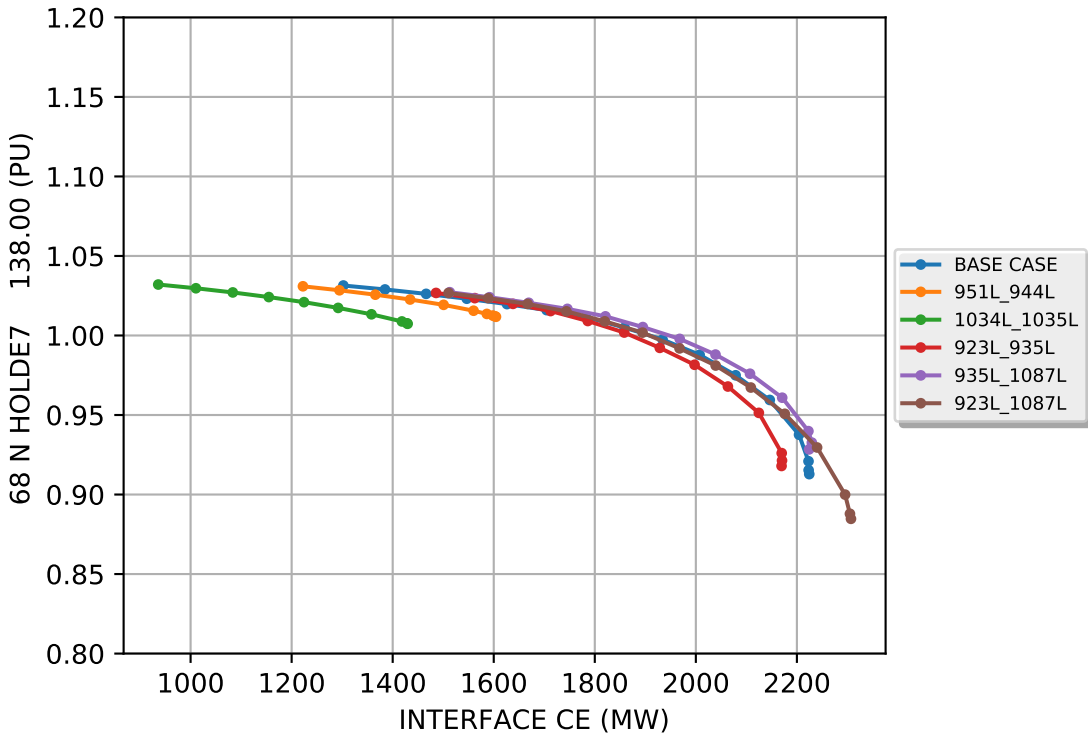


Figure: E-5-209

Case: M5, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 31.3%

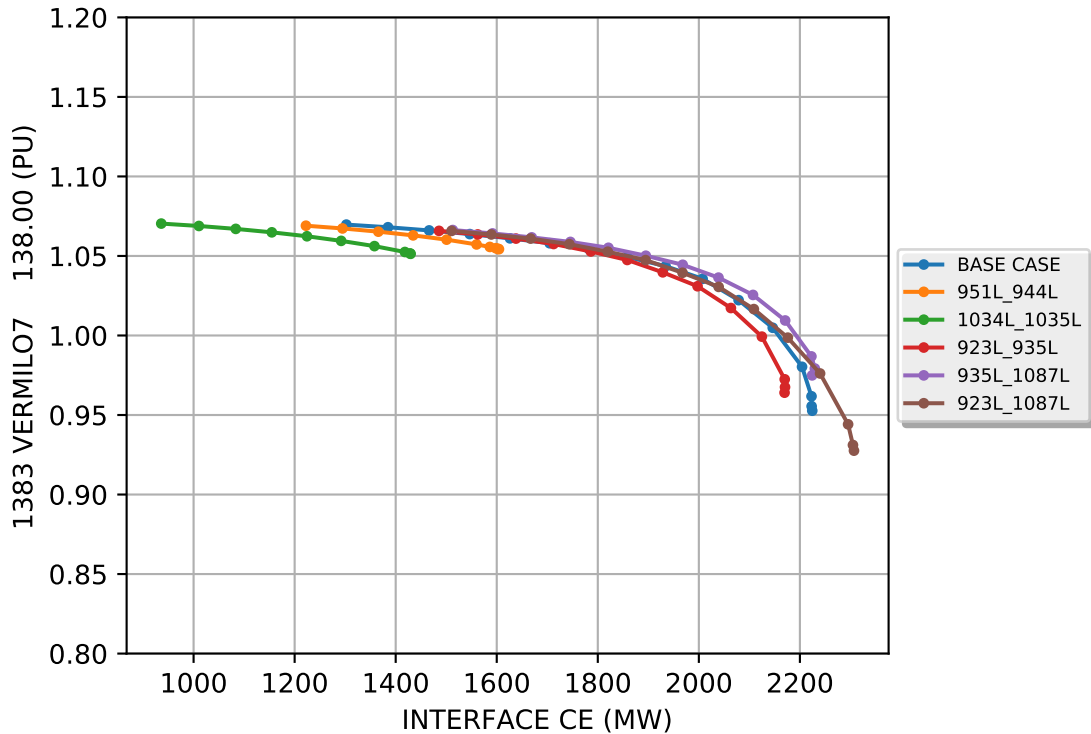


Figure: E-5-210

Case: M5, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 31.3%

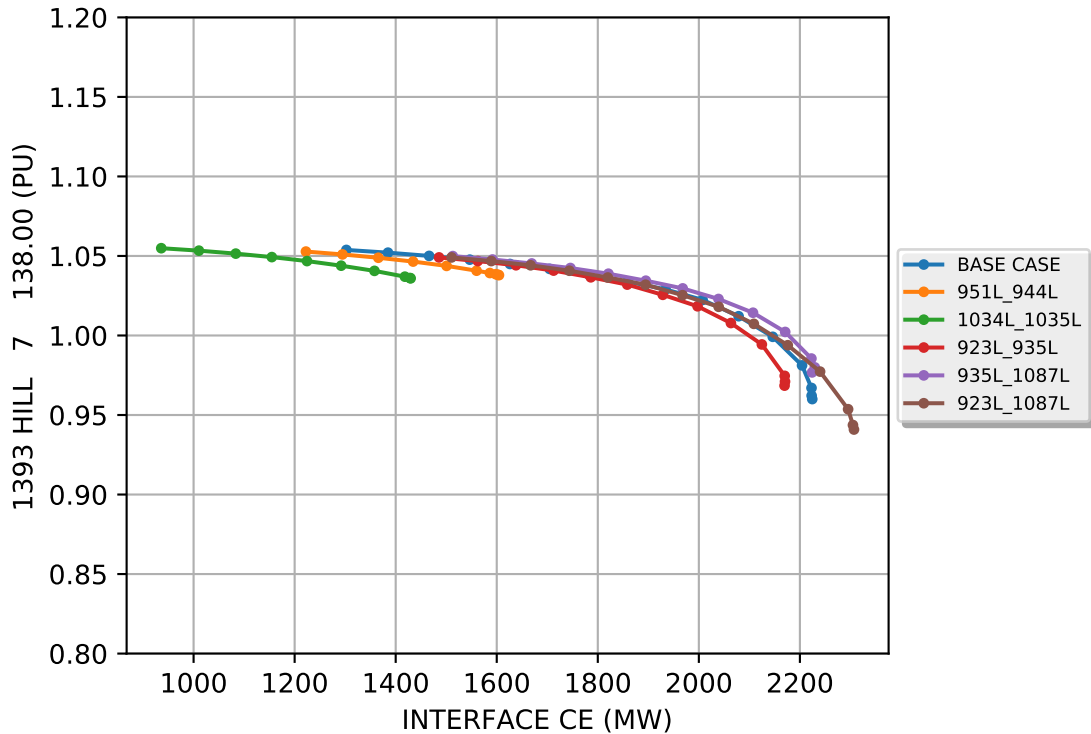


Figure: E-5-211

Case: M2, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 86.3%

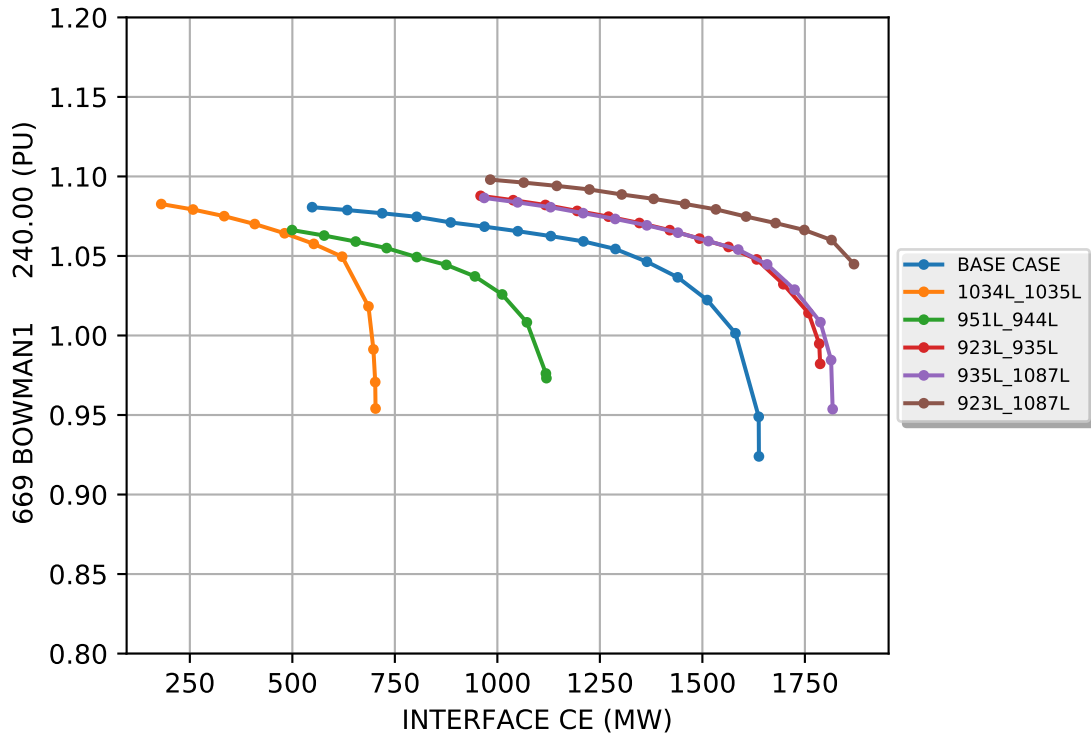


Figure: E-5-212

Case: M2, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 86.3%

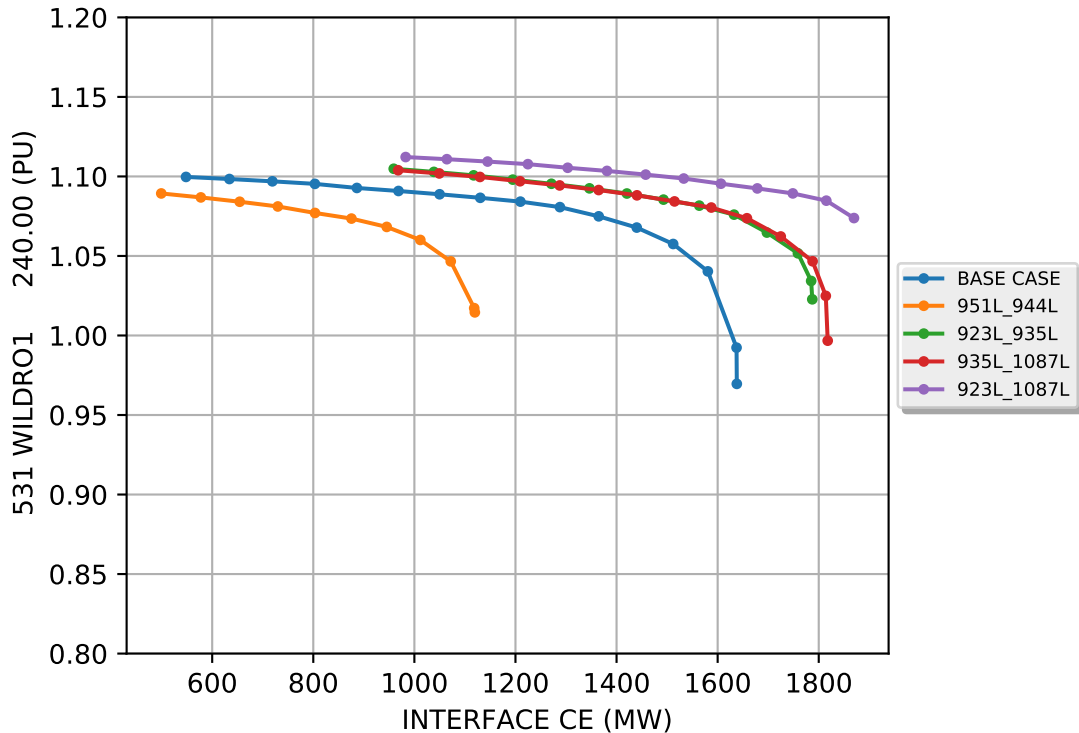


Figure: E-5-213

Case: M2, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 86.3%

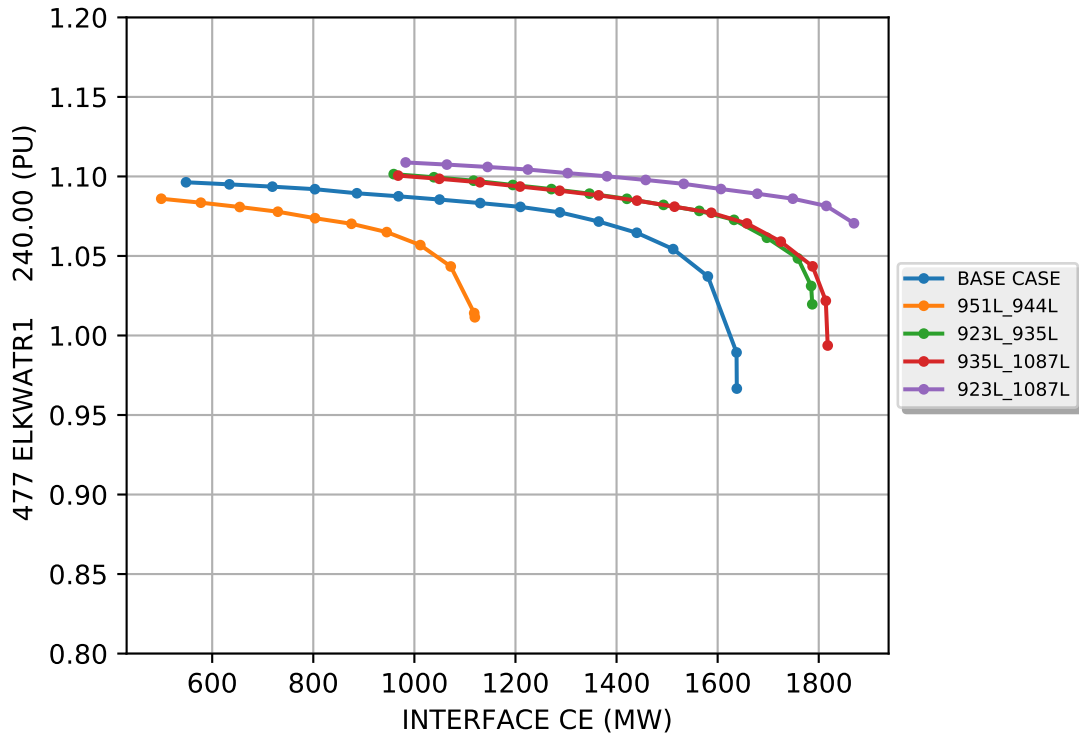


Figure: E-5-214

Case: M2, Option: BOTH

Min Voltage: 0.88 PU, Min Margin: 86.3%

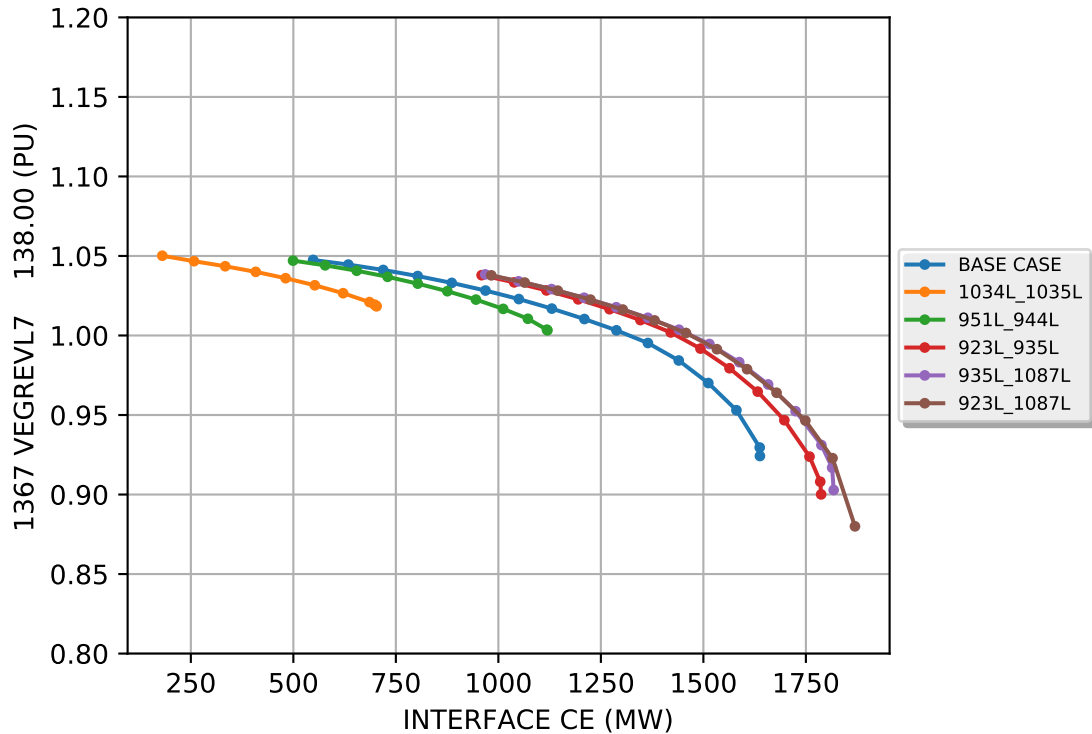


Figure: E-5-215

Case: M2, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 86.3%

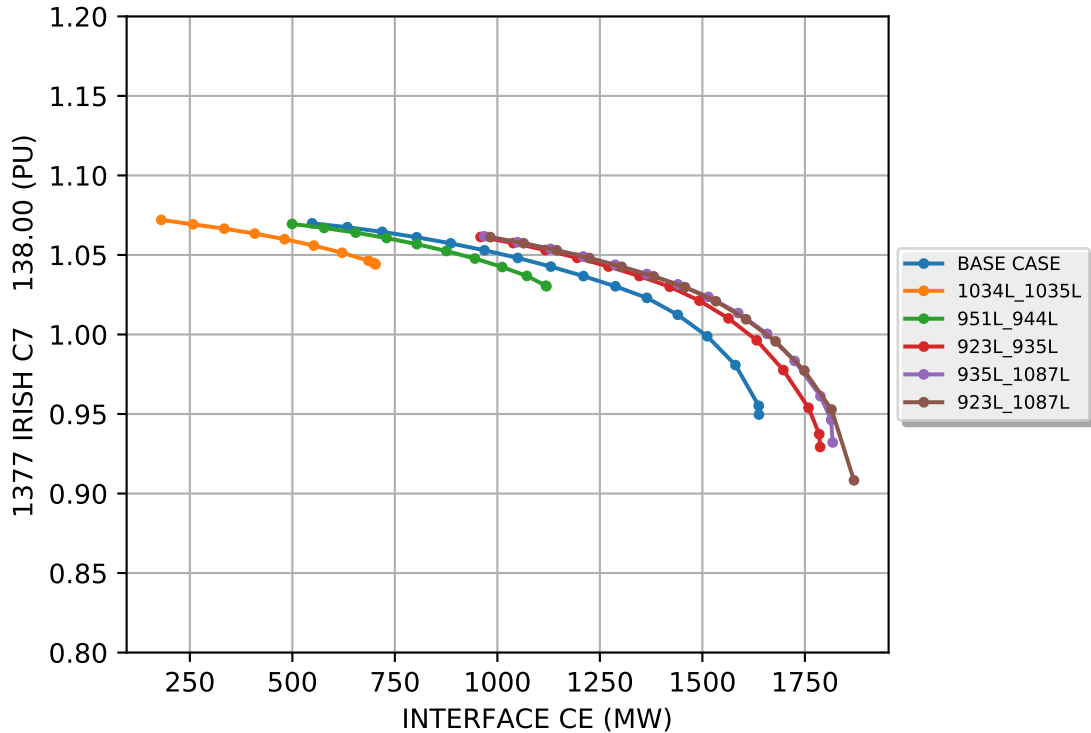


Figure: E-5-216

Case: M2, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 86.3%

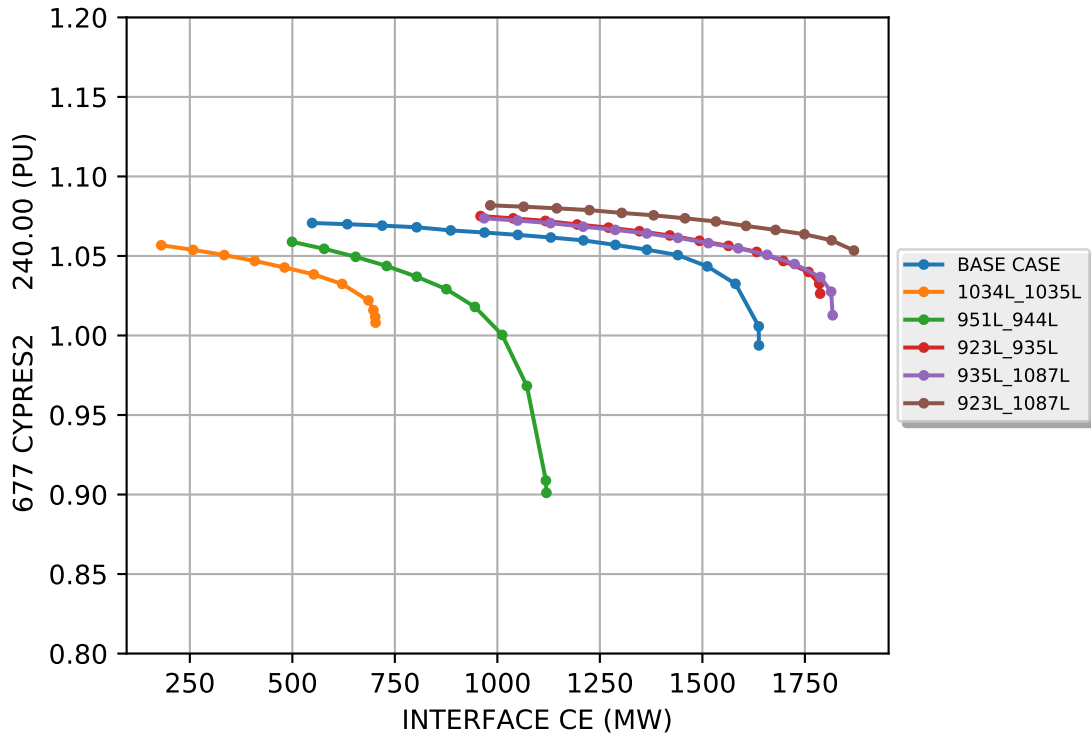


Figure: E-5-217

Case: M2, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 86.3%

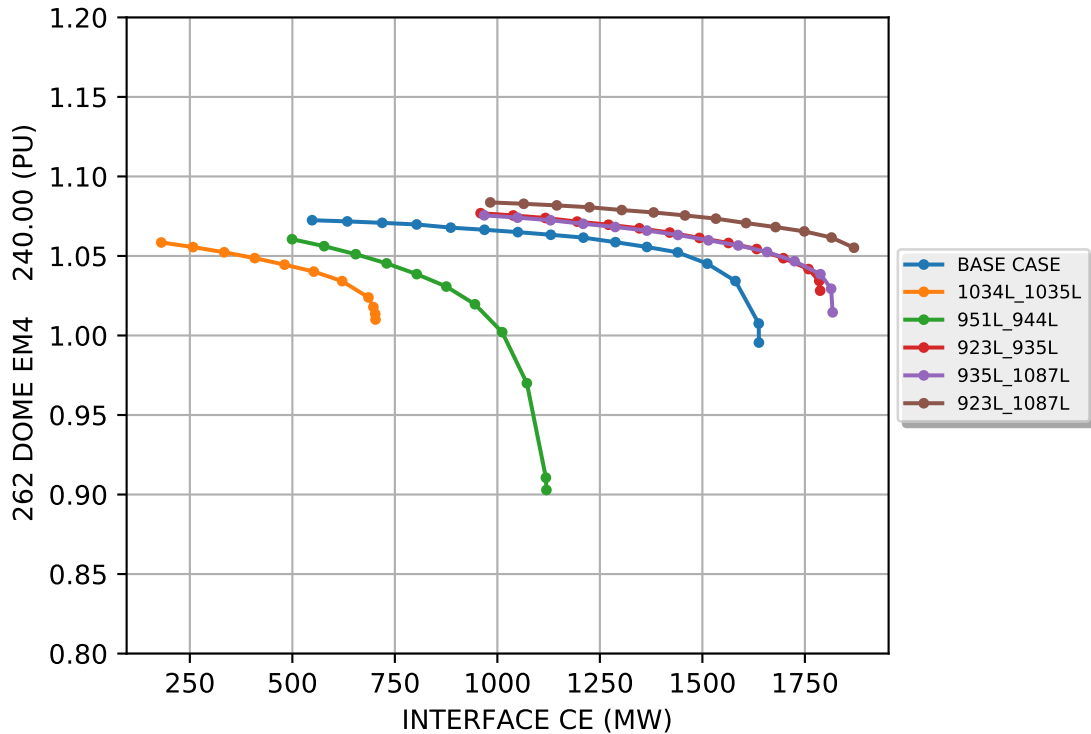


Figure: E-5-218

Case: M2, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 86.3%

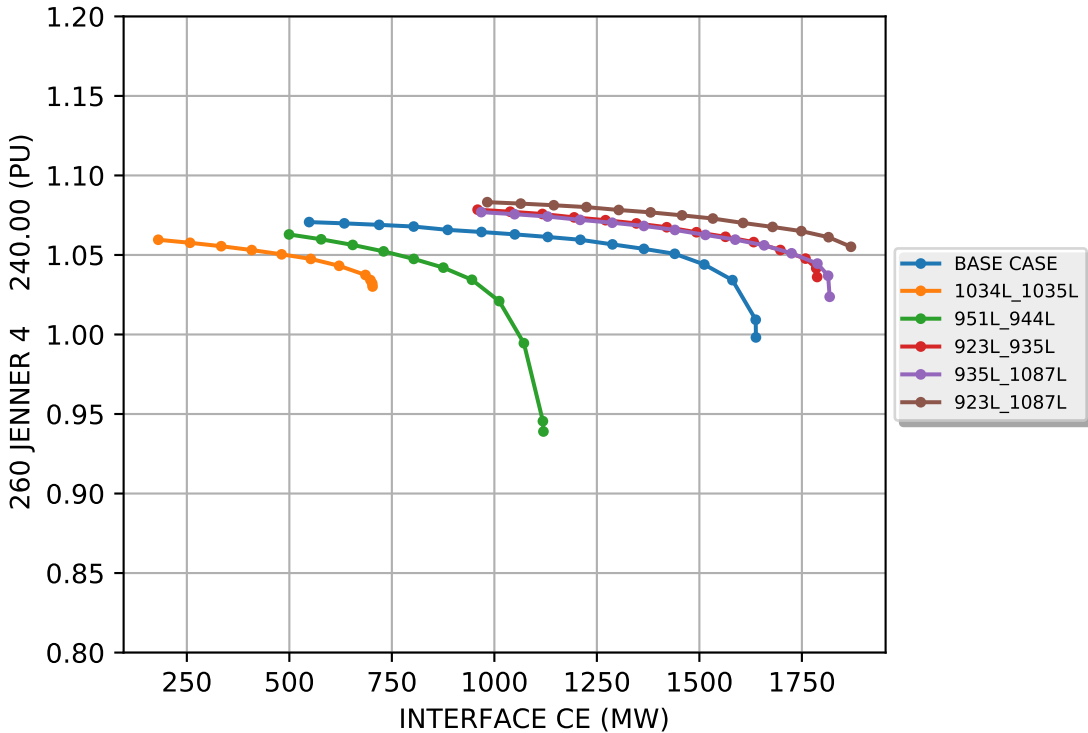


Figure: E-5-219

Case: M2, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 86.3%

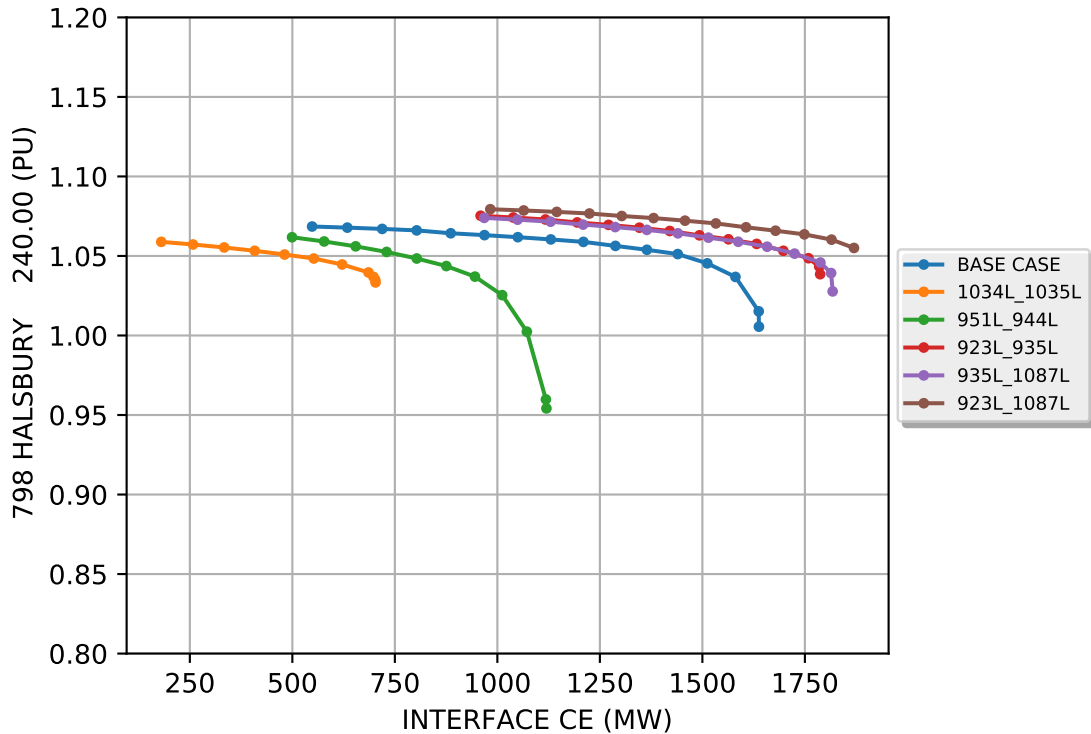


Figure: E-5-220

Case: M2, Option: BOTH

Min Voltage: 0.89 PU, Min Margin: 86.3%

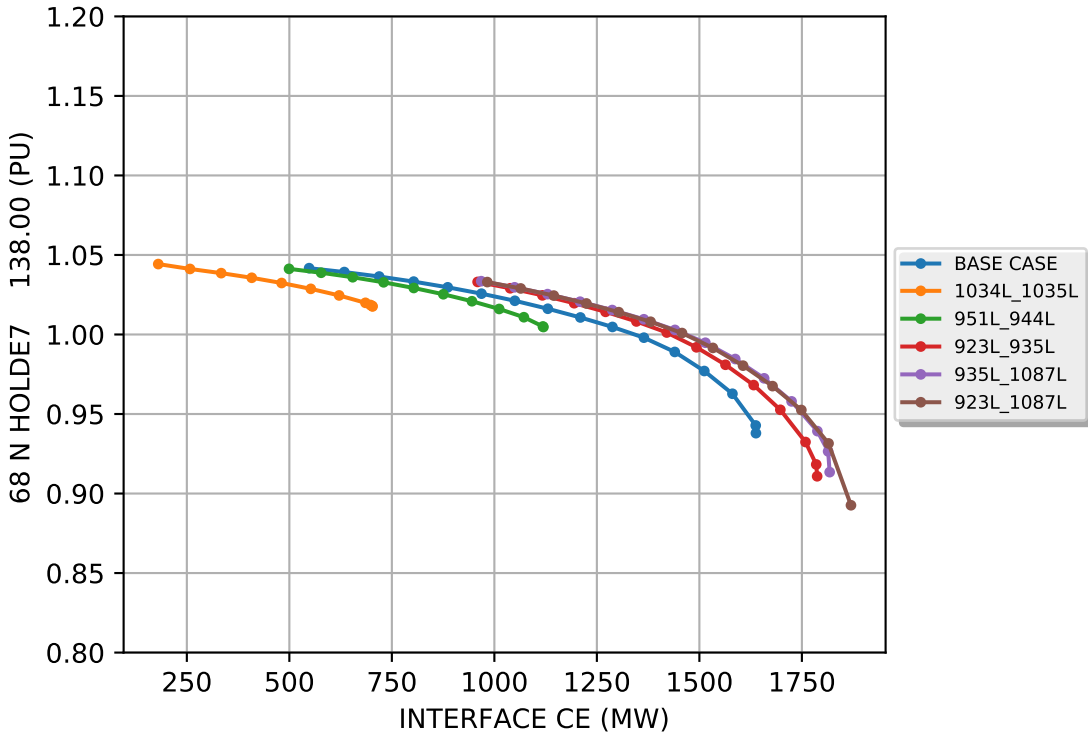


Figure: E-5-221

Case: M2, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 86.3%

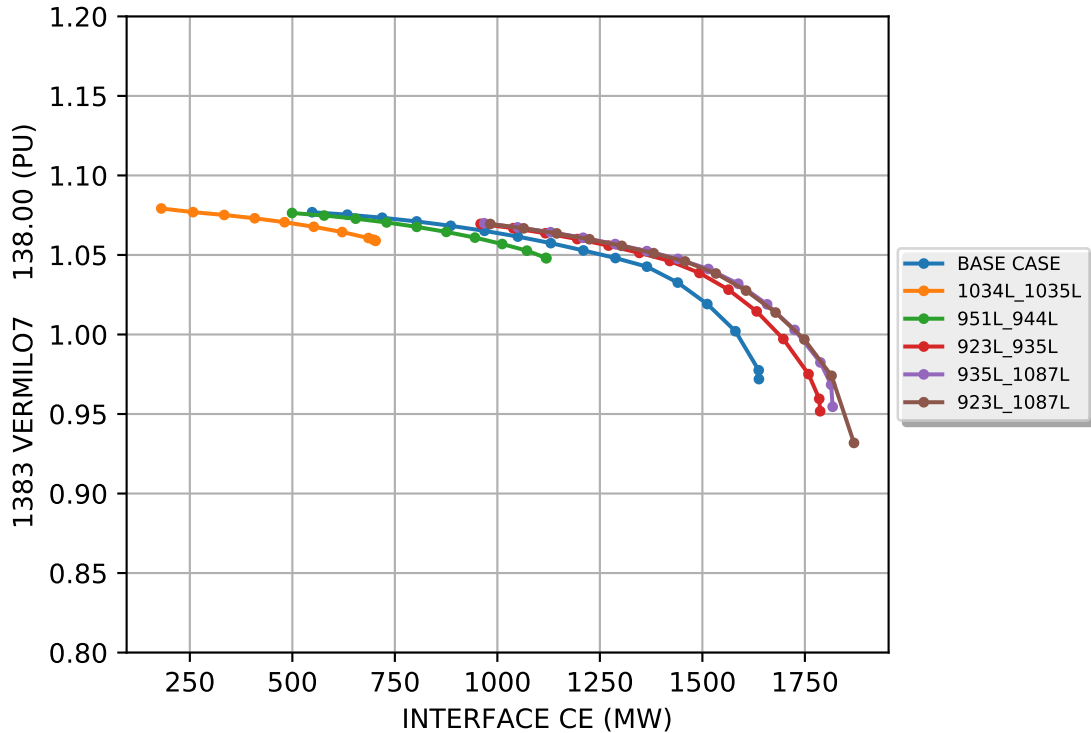


Figure: E-5-222

Case: M2, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 86.3%

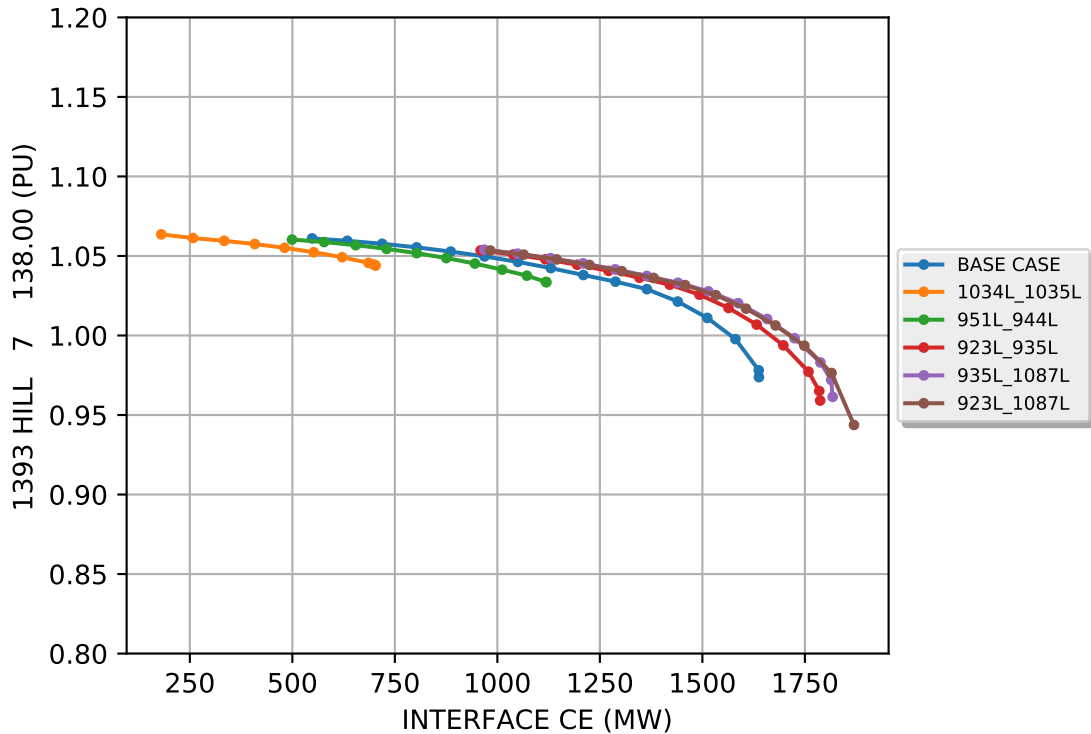


Figure: E-5-223

Case: M3, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 106.4%

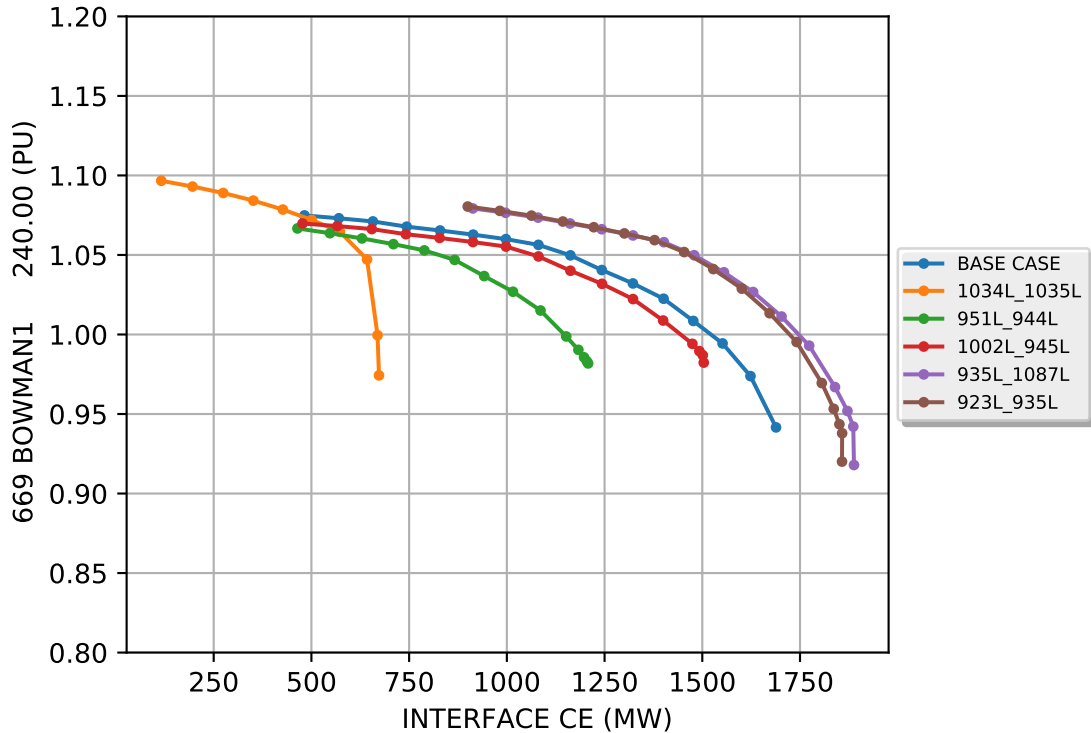


Figure: E-5-224

Case: M3, Option: BOTH

Min Voltage: 0.97 PU, Min Margin: 106.4%

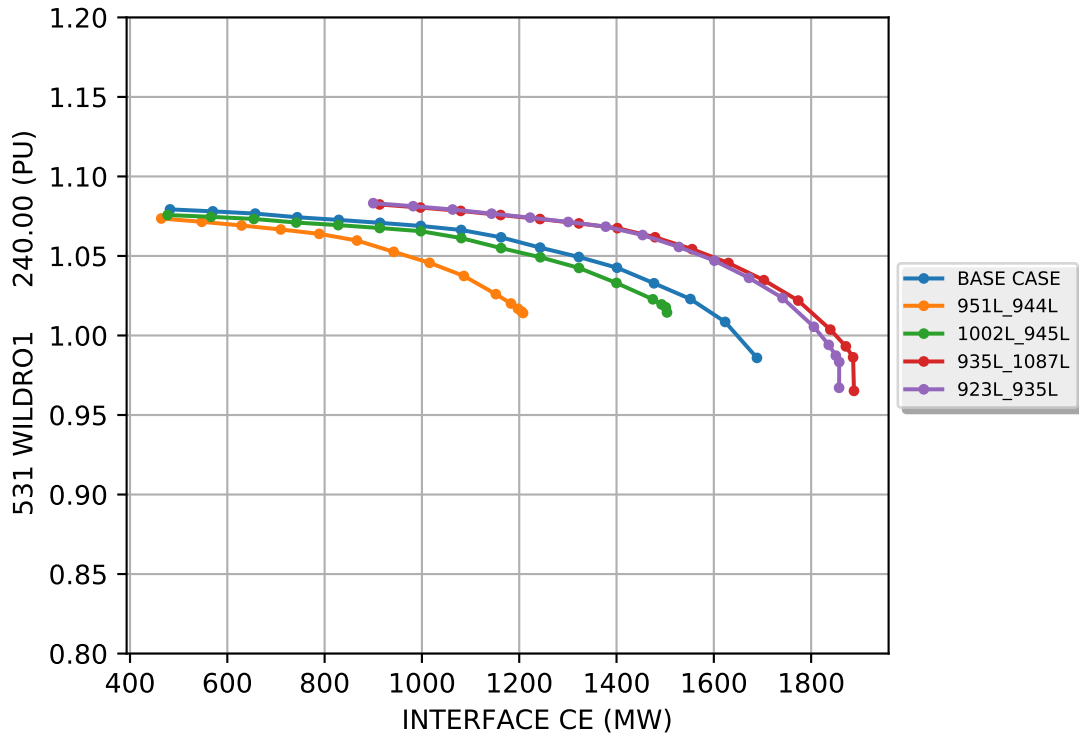


Figure: E-5-225

Case: M3, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 106.4%

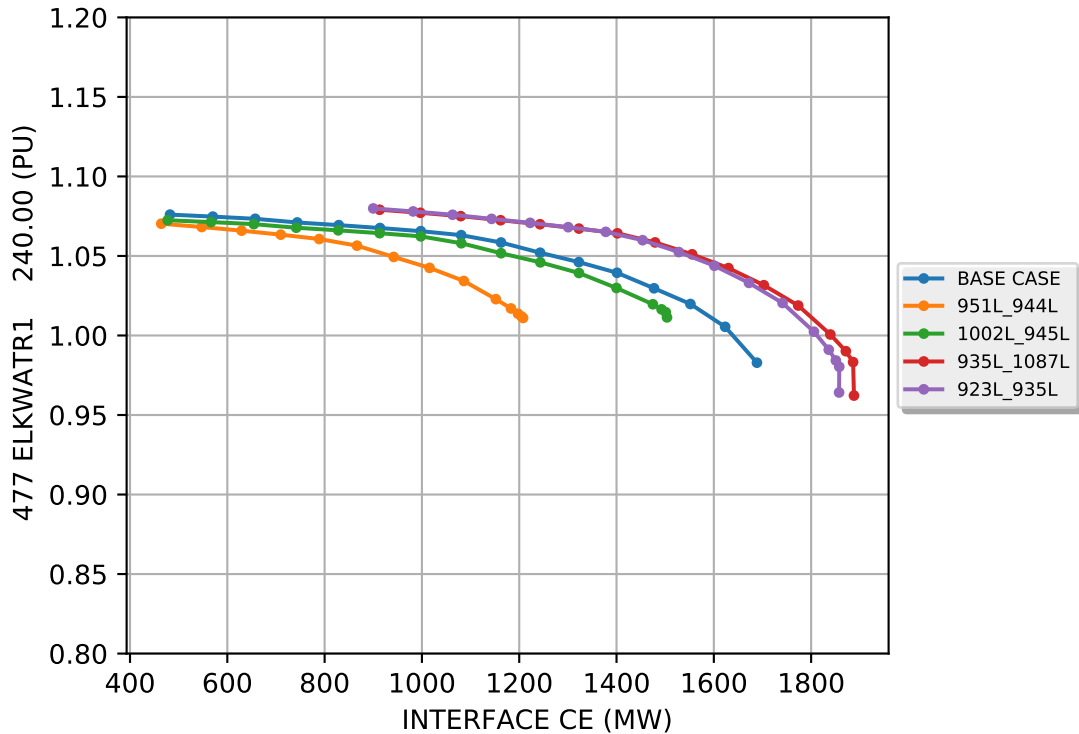


Figure: E-5-226

Case: M3, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 106.4%

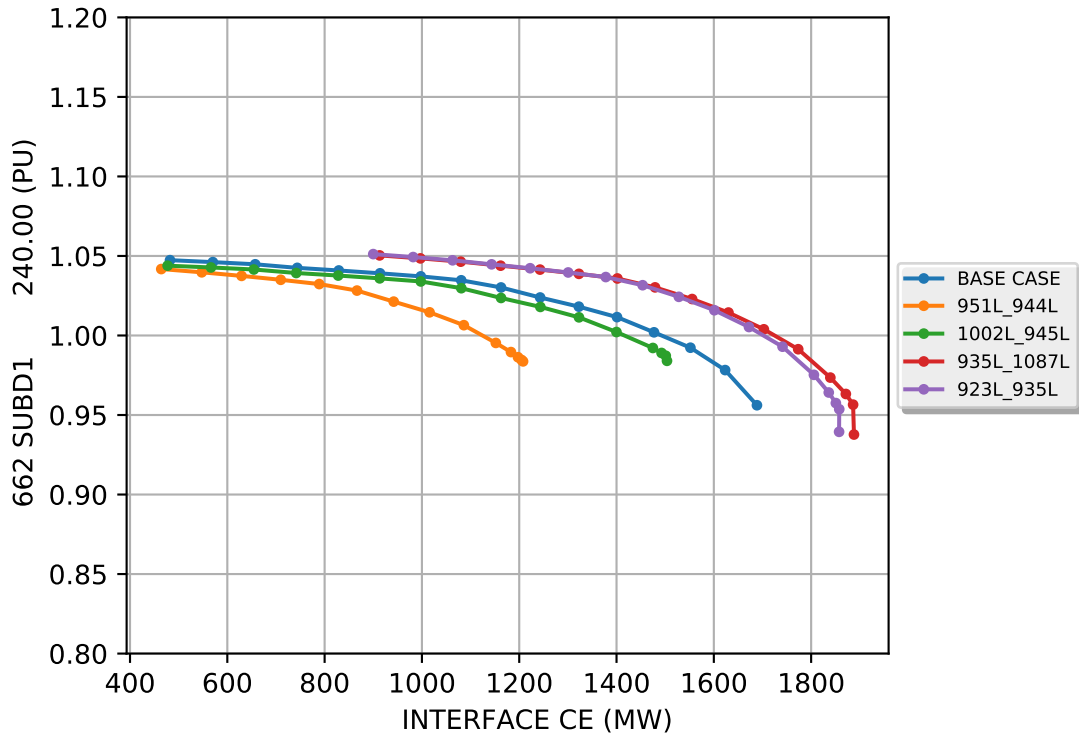


Figure: E-5-227

Case: M3, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 106.4%

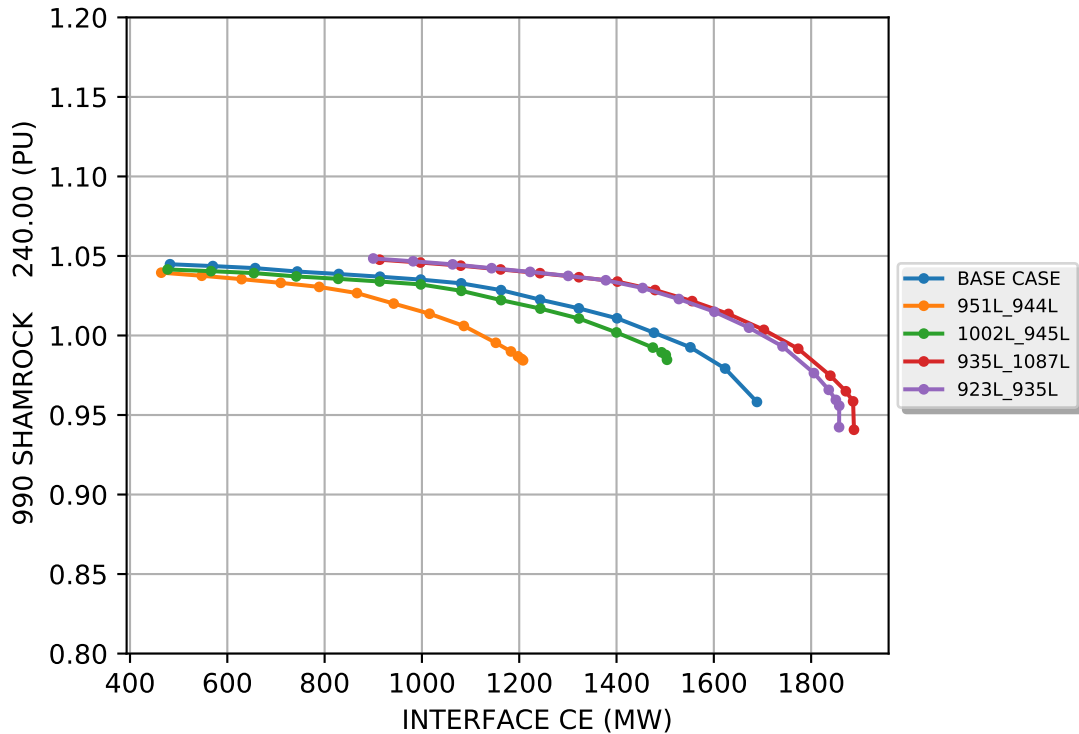


Figure: E-5-228

Case: M3, Option: BOTH

Min Voltage: 0.79 PU, Min Margin: 106.4%

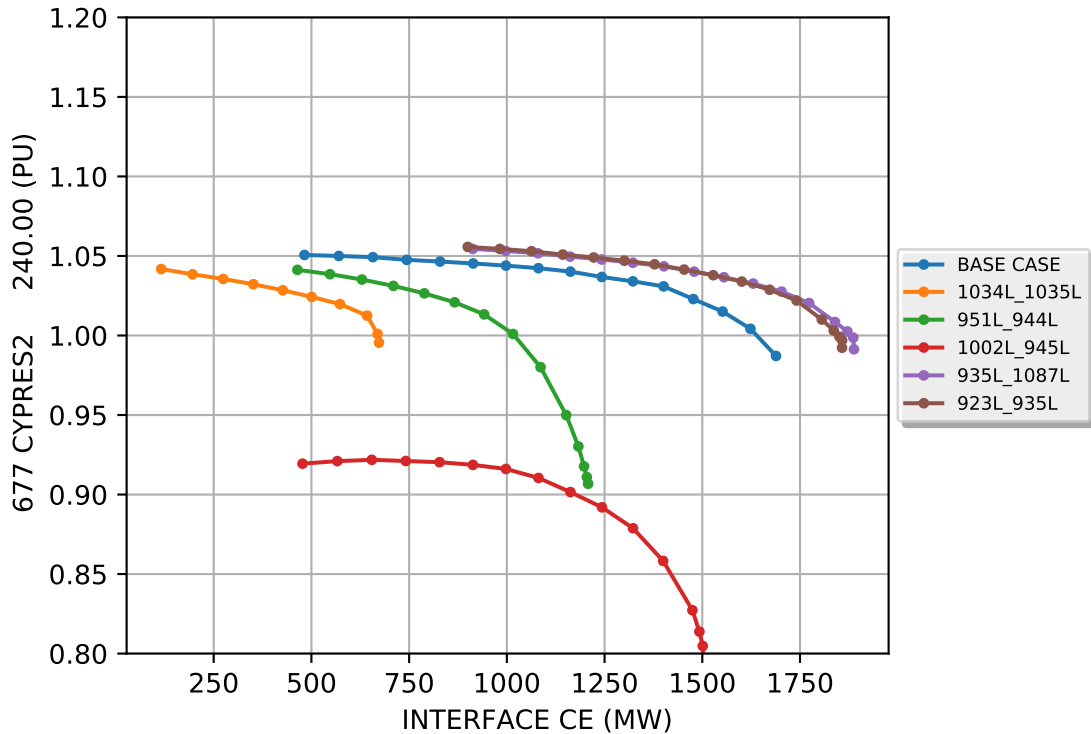


Figure: E-5-229

Case: M3, Option: BOTH

Min Voltage: 0.82 PU, Min Margin: 106.4%

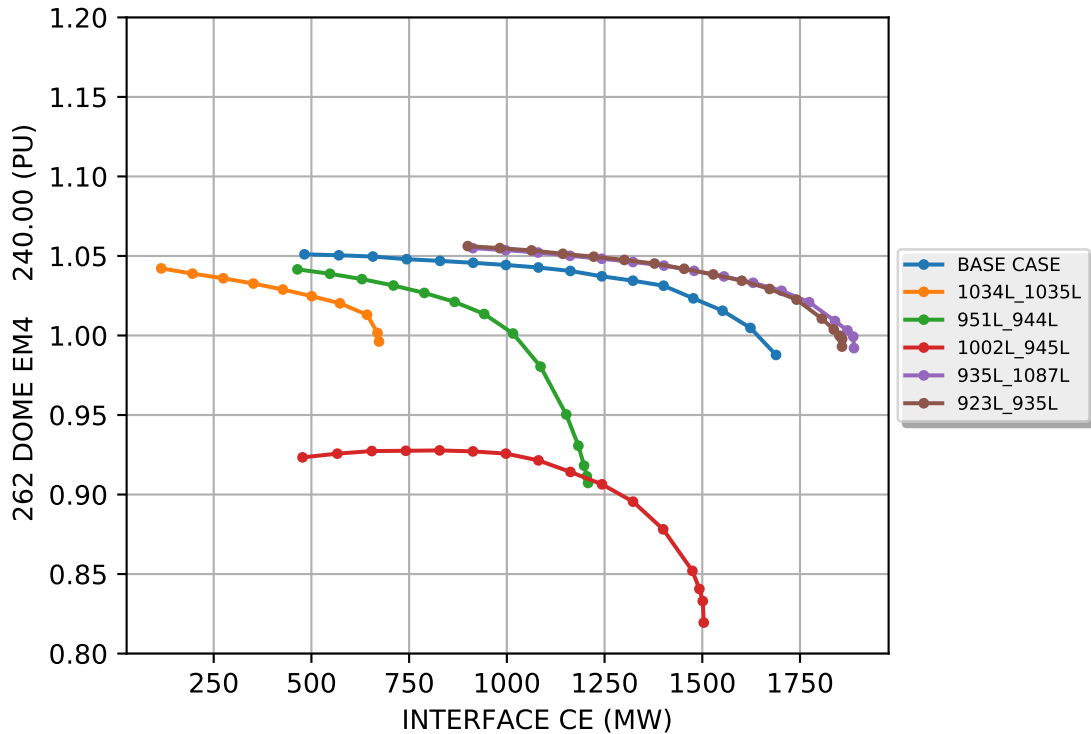


Figure: E-5-230

Case: M3, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 106.4%

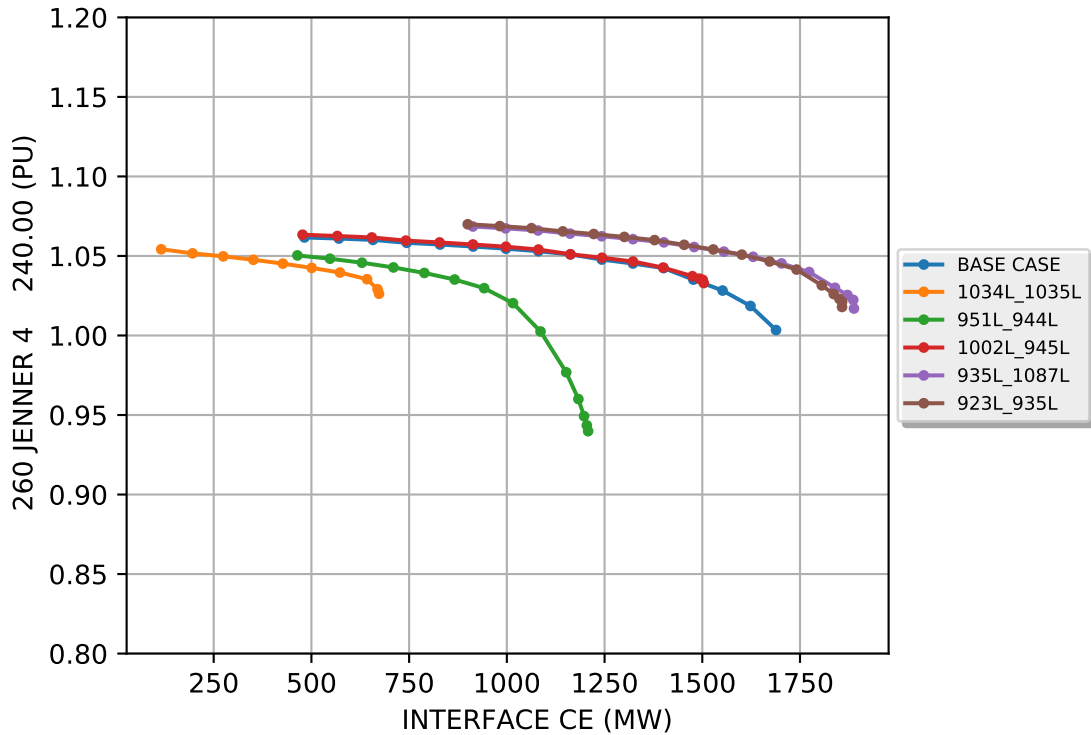


Figure: E-5-231

Case: M3, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 106.4%

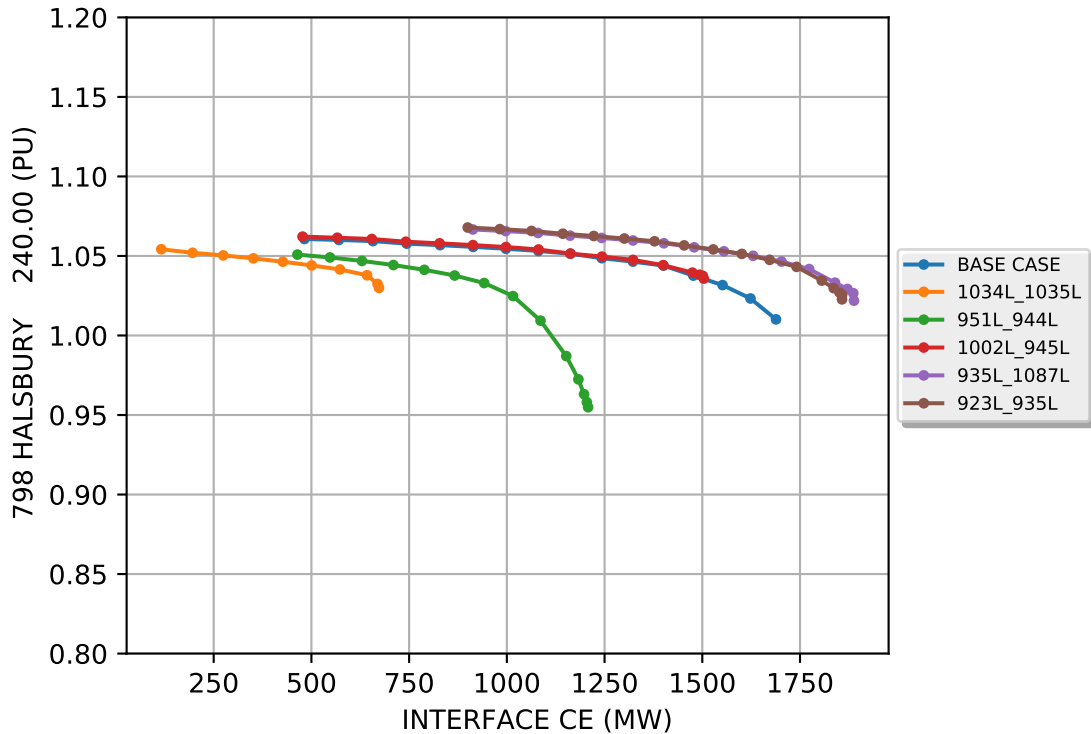


Figure: E-5-232

Case: M11, Option: BOTH

Min Voltage: 0.85 PU, Min Margin: 79.2%

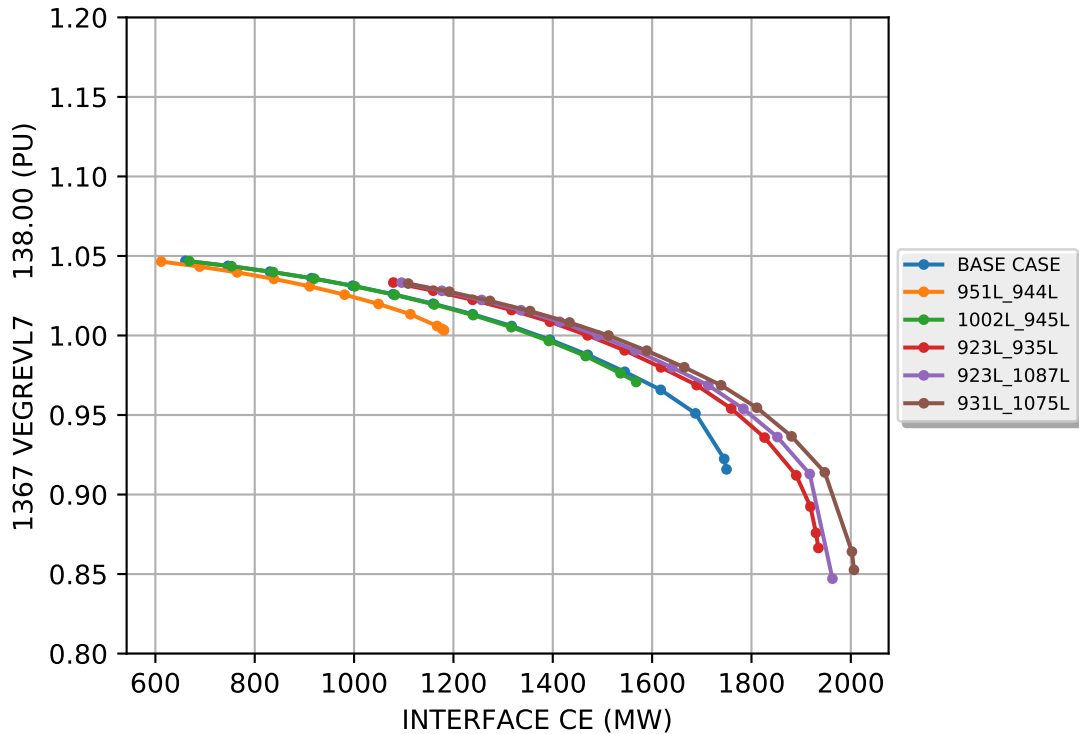


Figure: E-5-233

Case: M11, Option: BOTH

Min Voltage: 0.86 PU, Min Margin: 79.2%

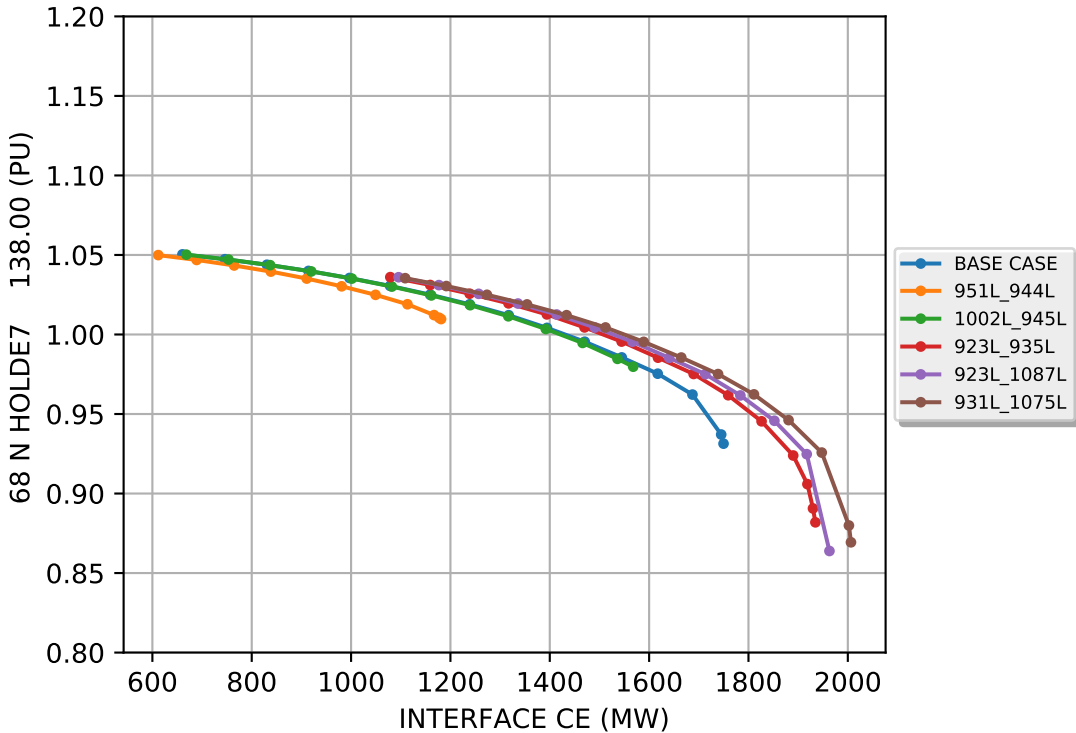


Figure: E-5-234

Case: M11, Option: BOTH

Min Voltage: 0.87 PU, Min Margin: 79.2%

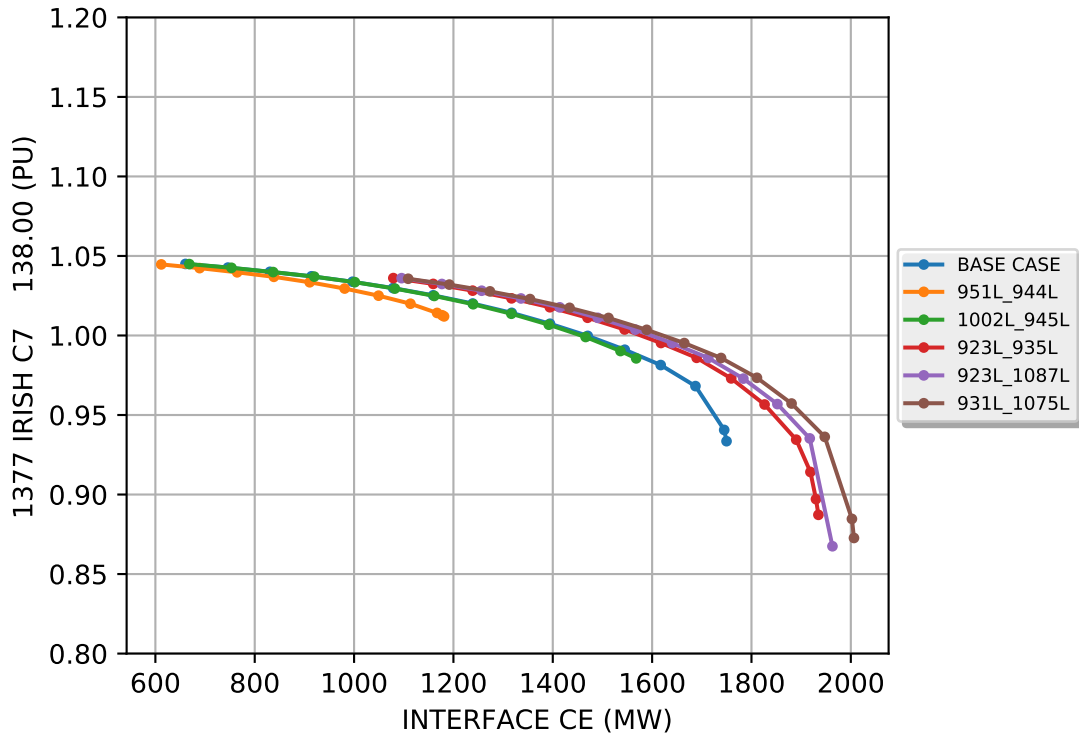


Figure: E-5-235

Case: M11, Option: BOTH

Min Voltage: 0.85 PU, Min Margin: 79.2%

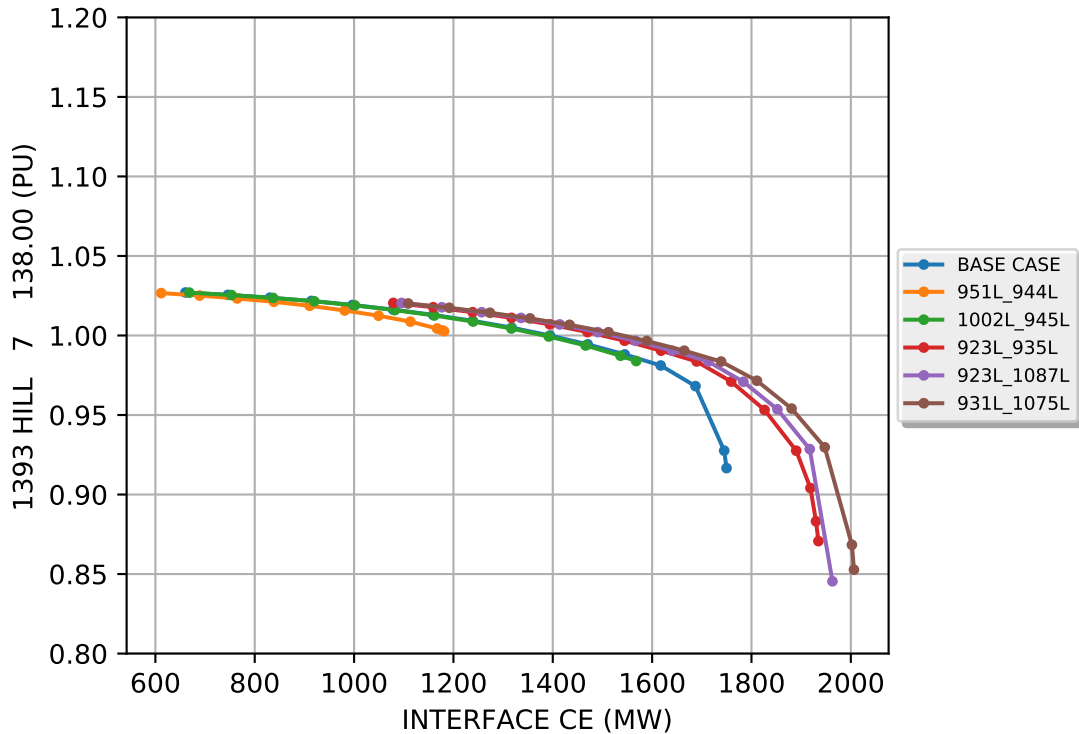


Figure: E-5-236

Case: M11, Option: BOTH

Min Voltage: 0.88 PU, Min Margin: 79.2%

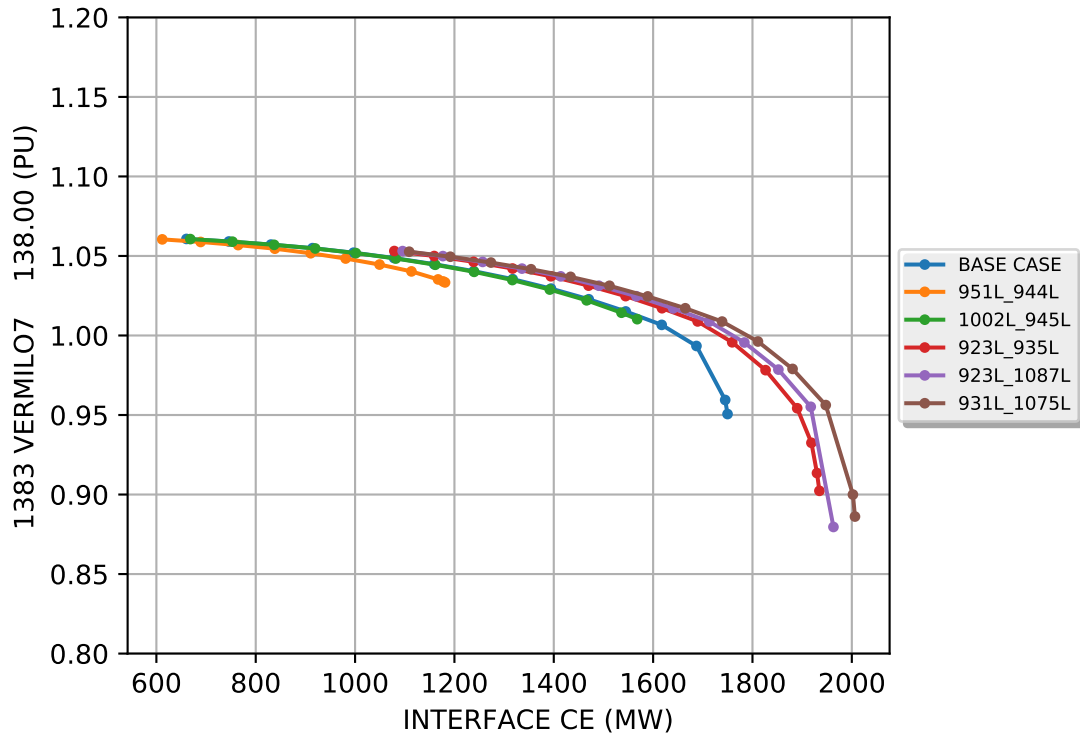


Figure: E-5-237

Case: M11, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 79.2%

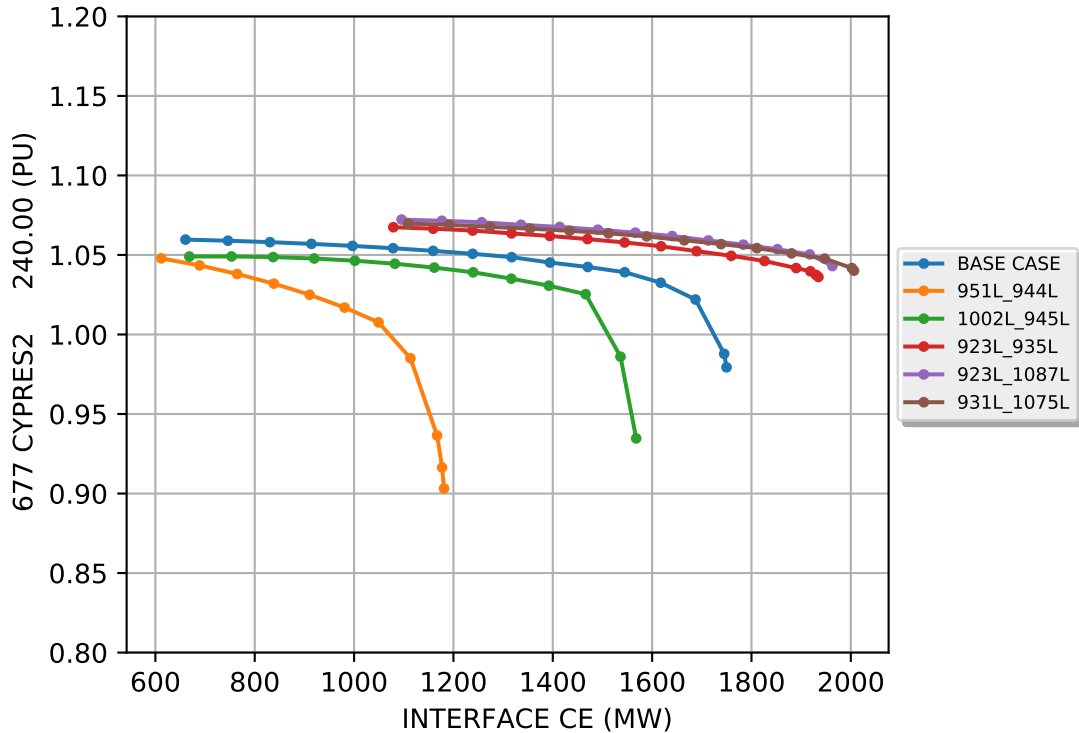


Figure: E-5-238

Case: M11, Option: BOTH

Min Voltage: 0.90 PU, Min Margin: 79.2%

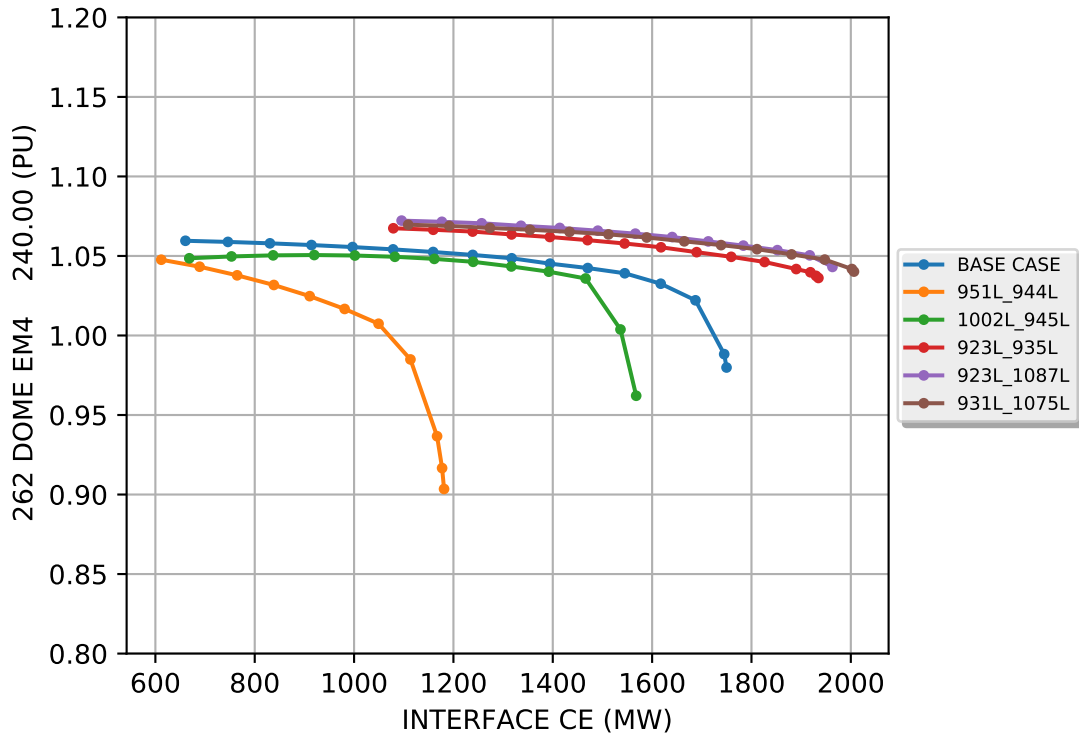


Figure: E-5-239

Case: M11, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 79.2%

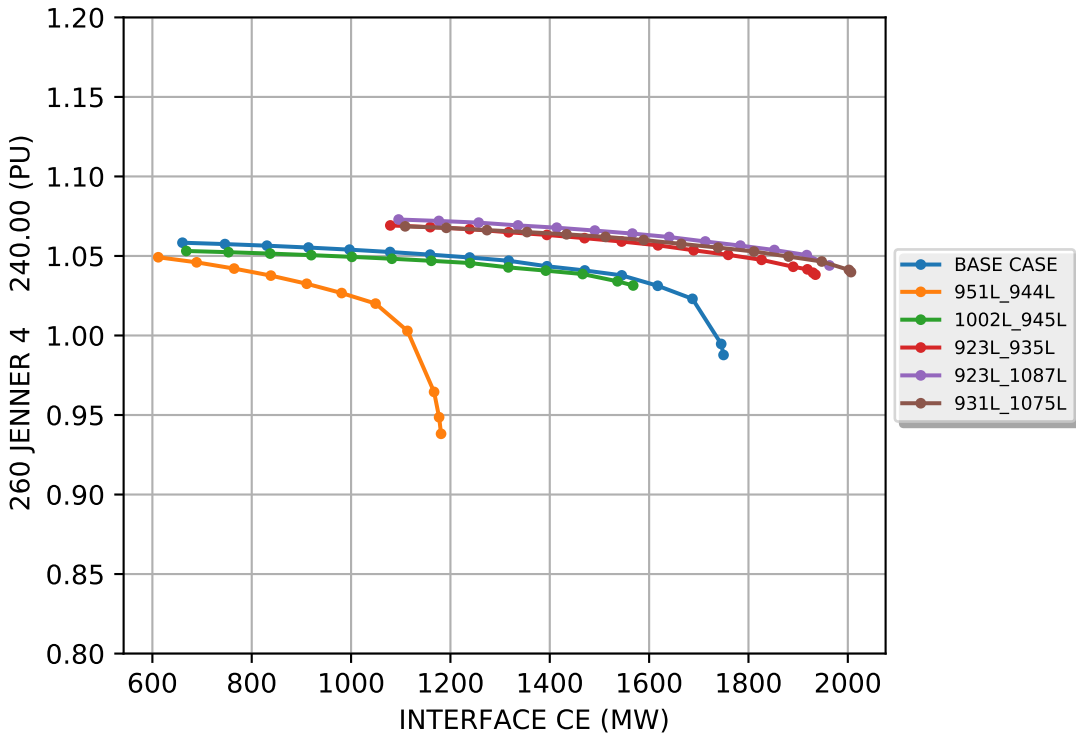


Figure: E-5-240

Case: M11, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 79.2%

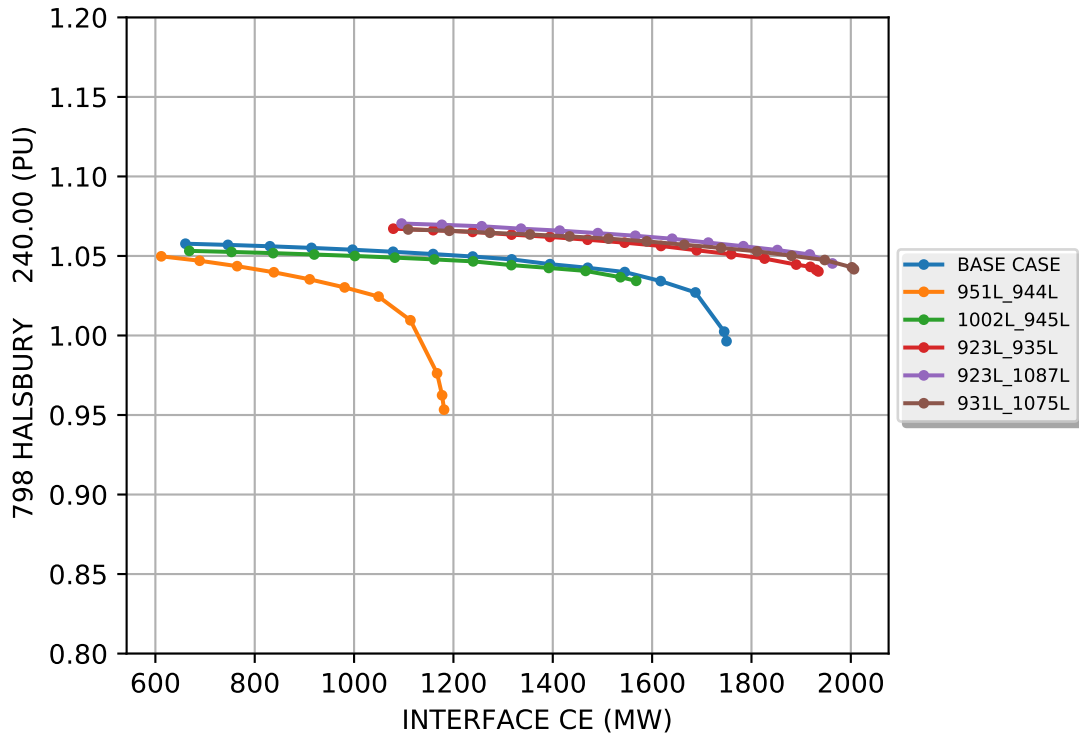


Figure: E-5-241

Case: M11, Option: BOTH

Min Voltage: 1.00 PU, Min Margin: 79.2%

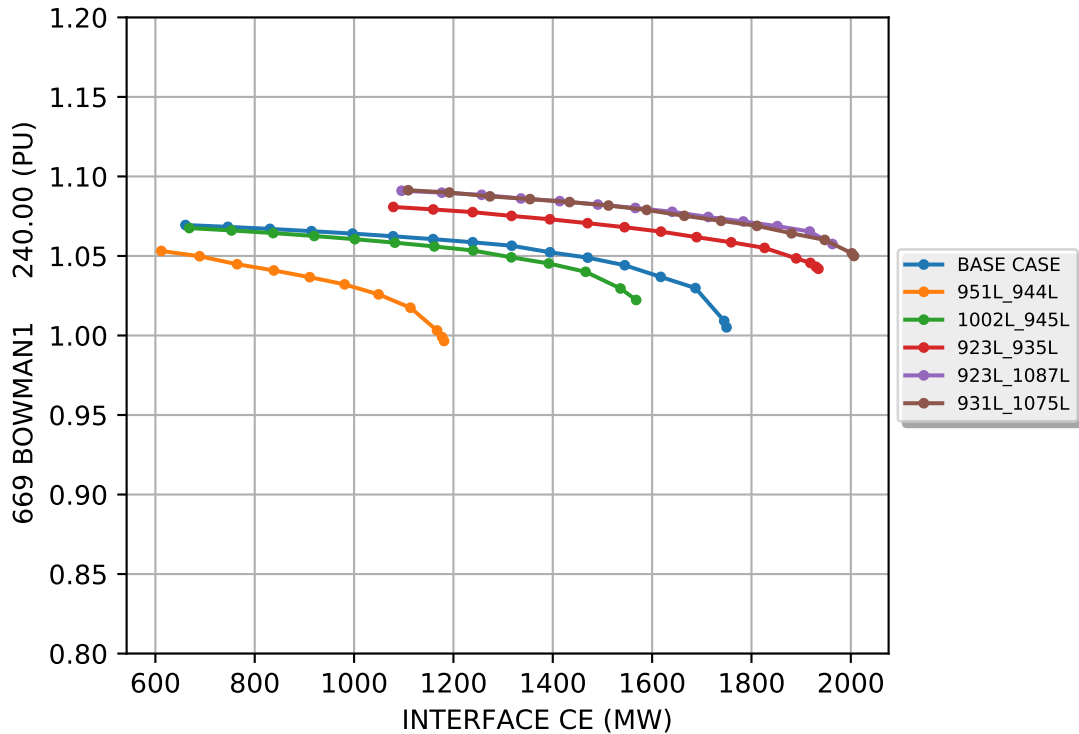


Figure: E-5-242

Case: M11, Option: BOTH

Min Voltage: 0.85 PU, Min Margin: 79.2%

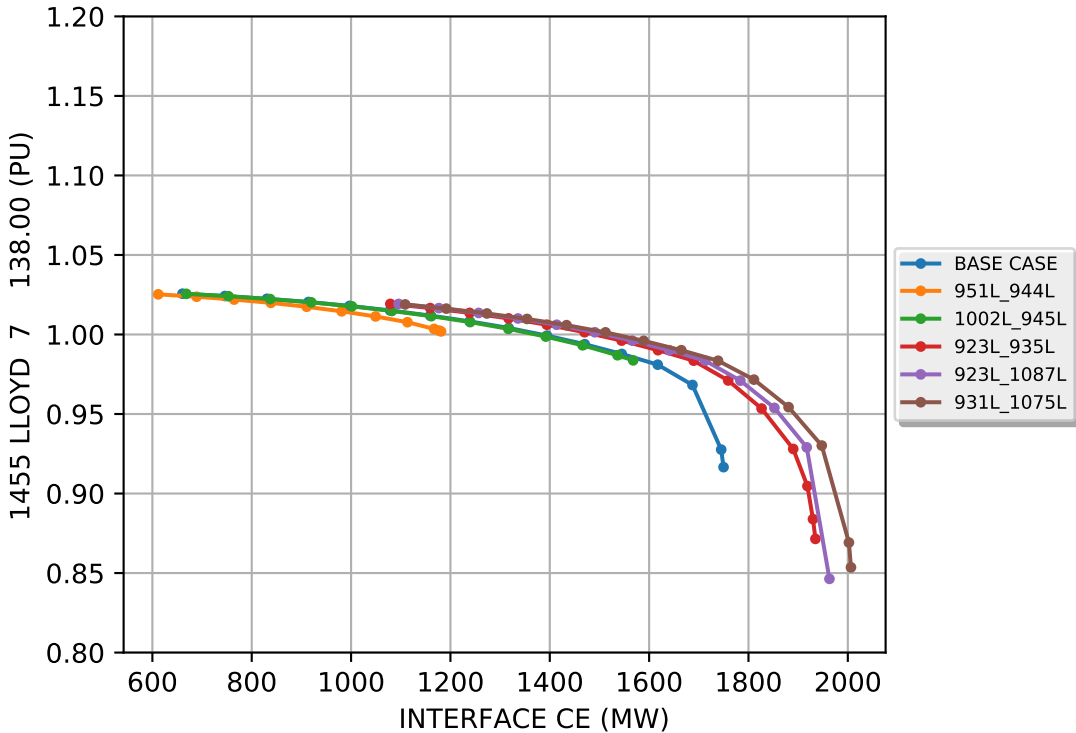


Figure: E-5-243

Case: M10, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 136.2%

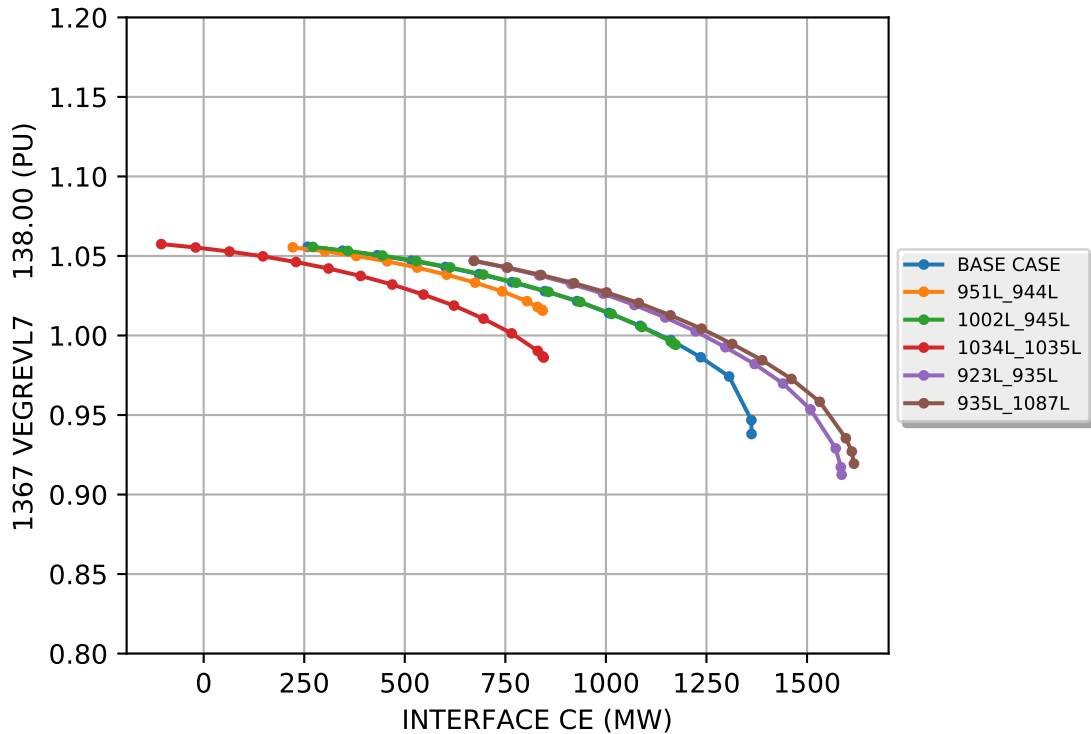


Figure: E-5-244

Case: M10, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 136.2%

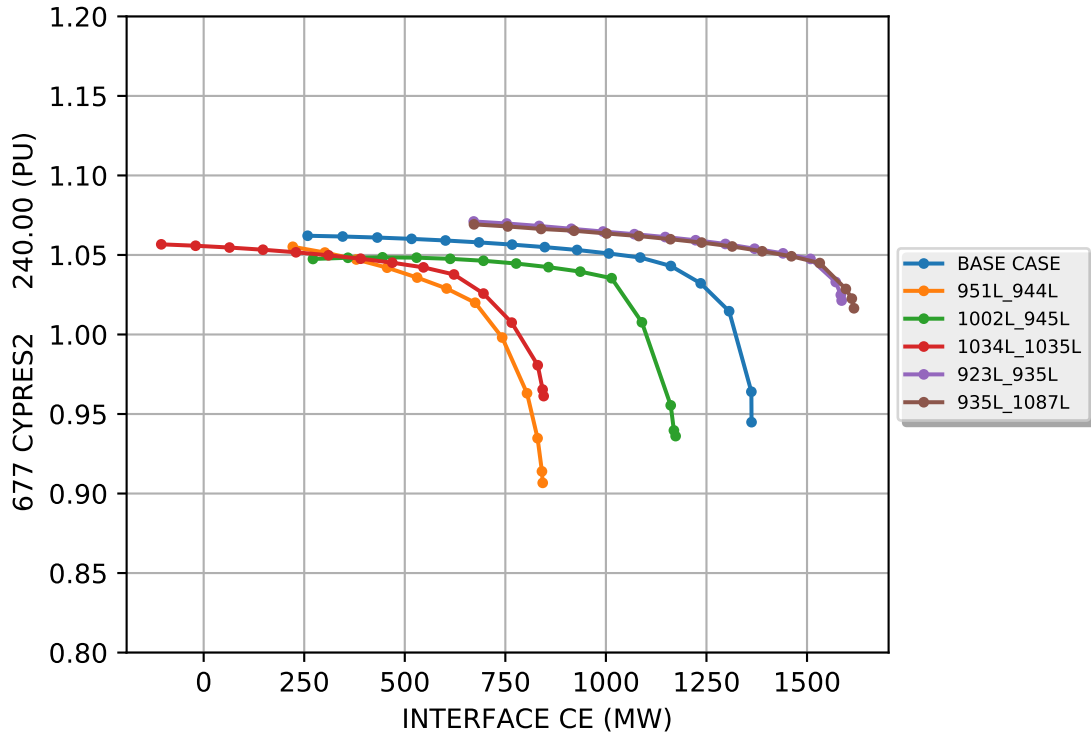


Figure: E-5-245

Case: M10, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 136.2%

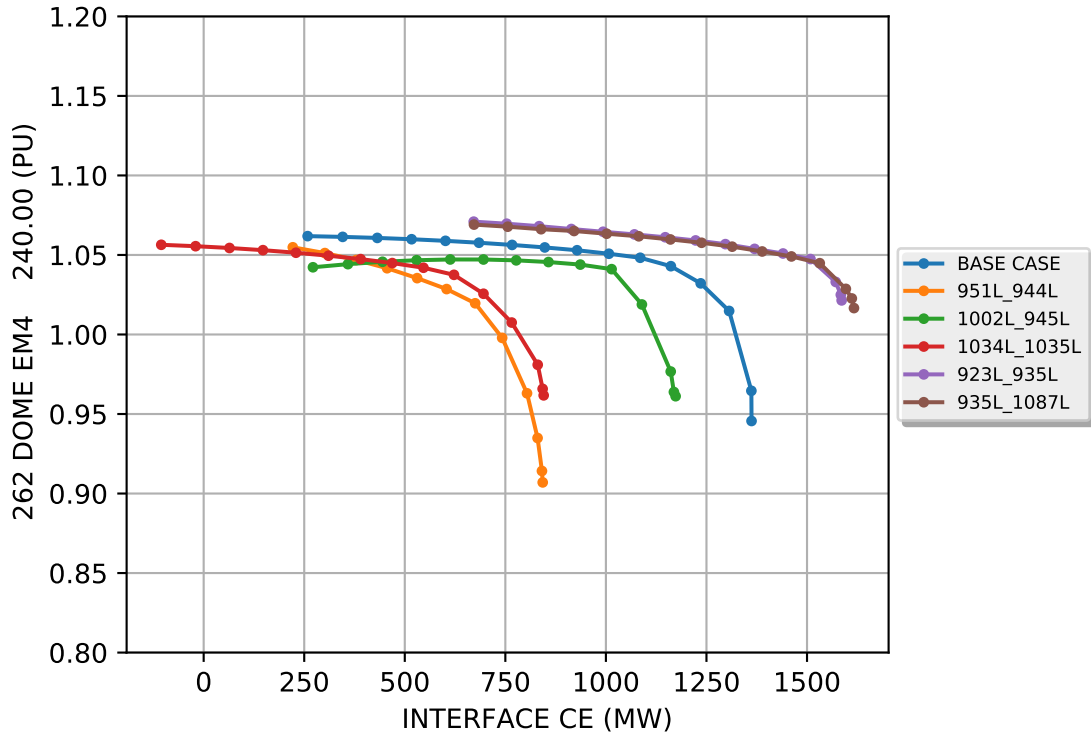


Figure: E-5-246

Case: M10, Option: BOTH

Min Voltage: 0.92 PU, Min Margin: 136.2%

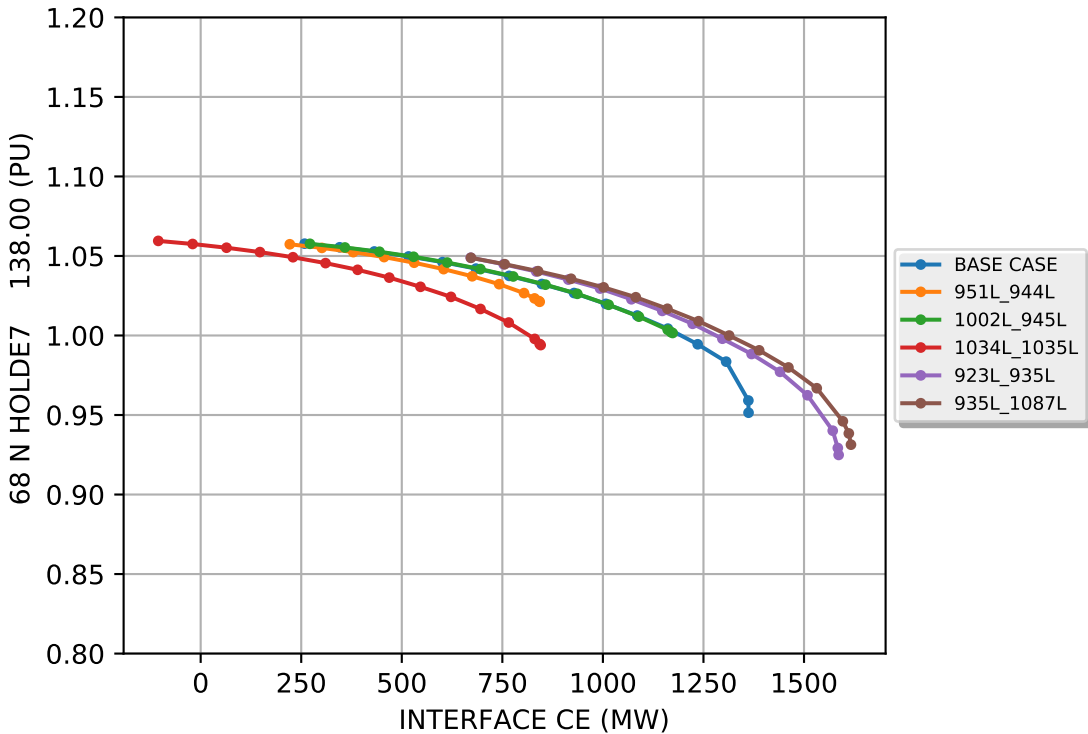


Figure: E-5-247

Case: M10, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 136.2%

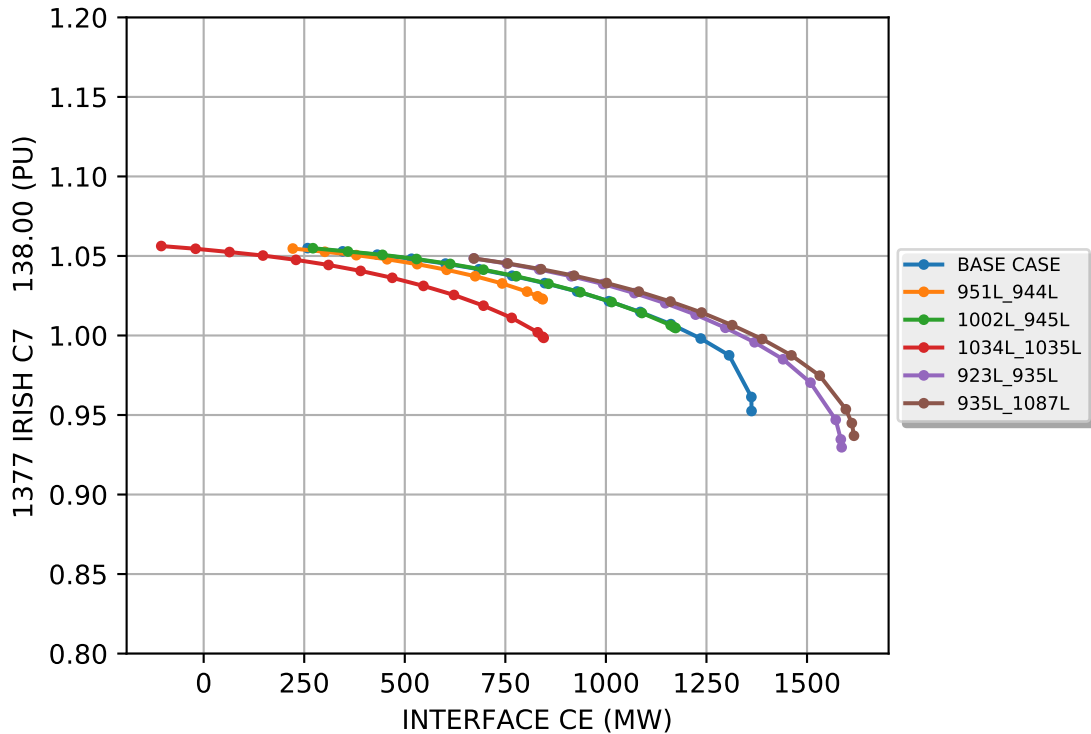


Figure: E-5-248

Case: M10, Option: BOTH

Min Voltage: 0.94 PU, Min Margin: 136.2%

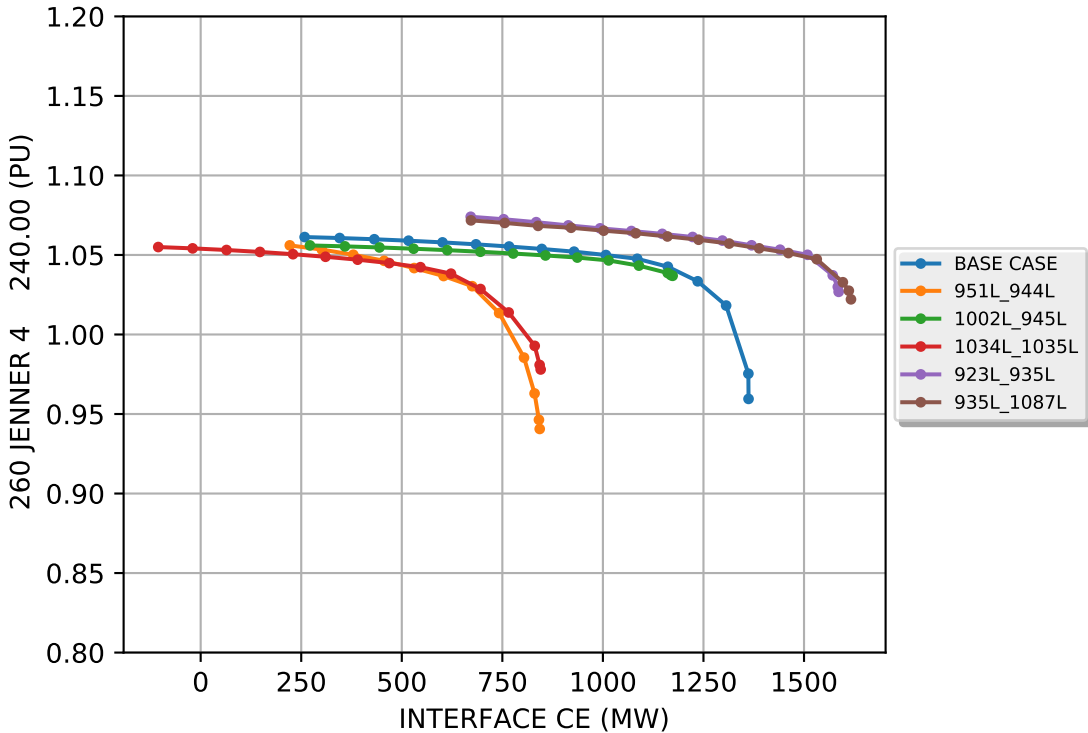


Figure: E-5-249

Case: M10, Option: BOTH

Min Voltage: 0.96 PU, Min Margin: 136.2%

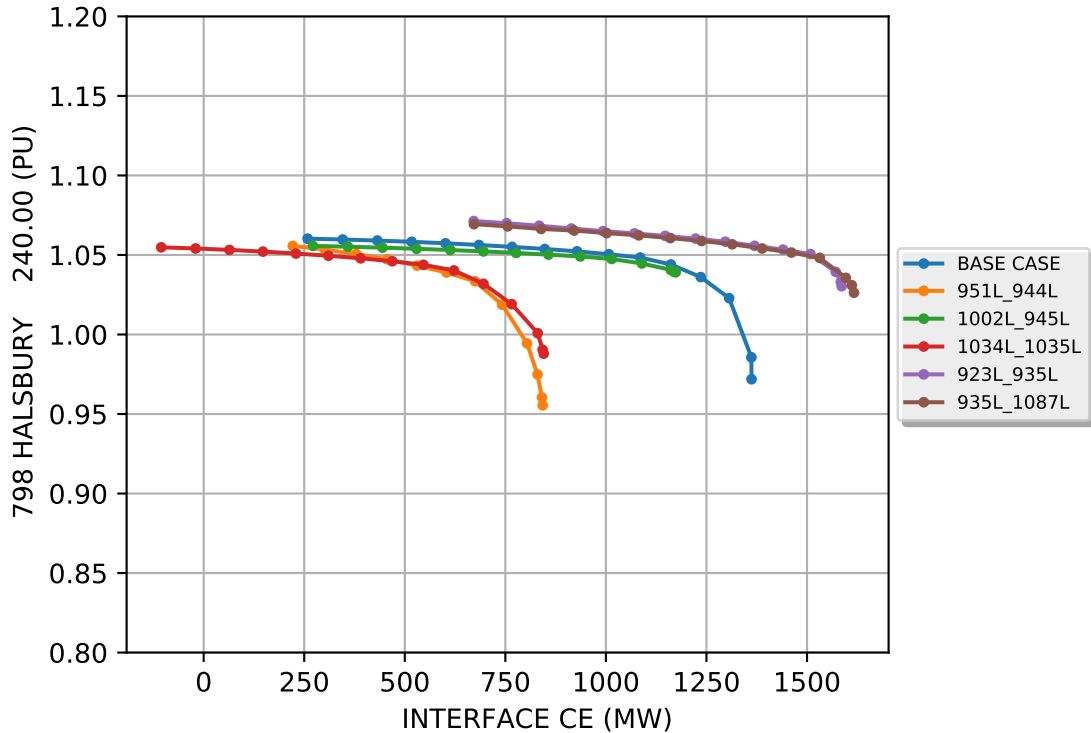


Figure: E-5-250

Case: M10, Option: BOTH

Min Voltage: 0.91 PU, Min Margin: 136.2%

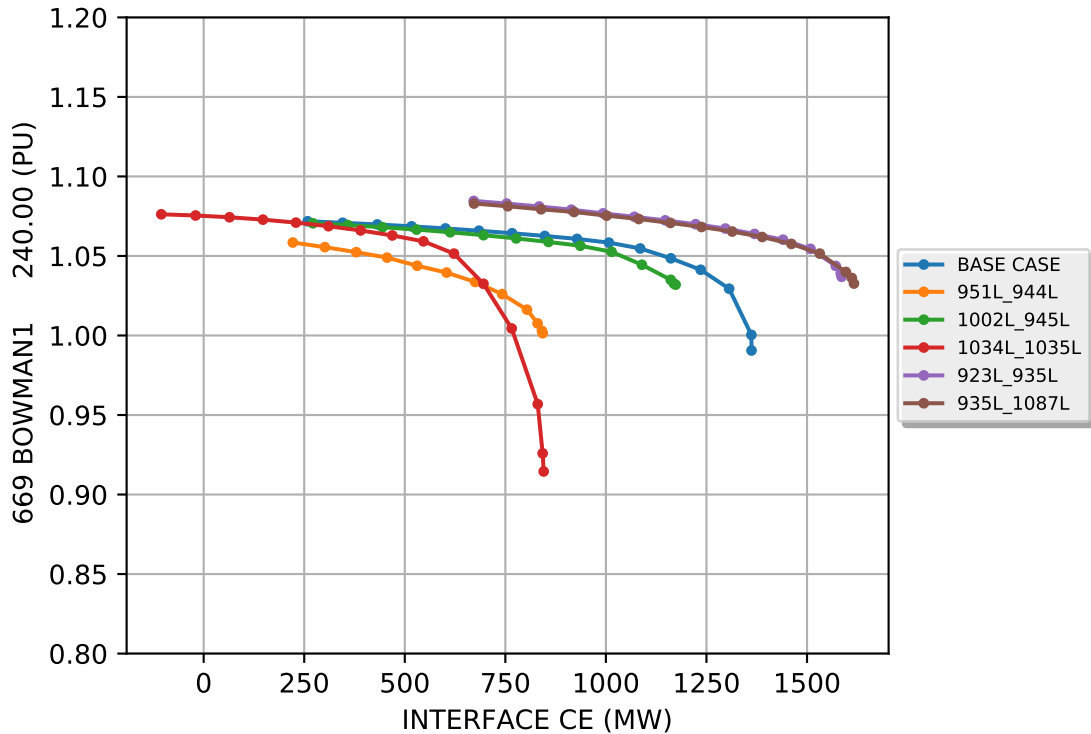


Figure: E-5-251

Case: M10, Option: BOTH

Min Voltage: 0.95 PU, Min Margin: 136.2%

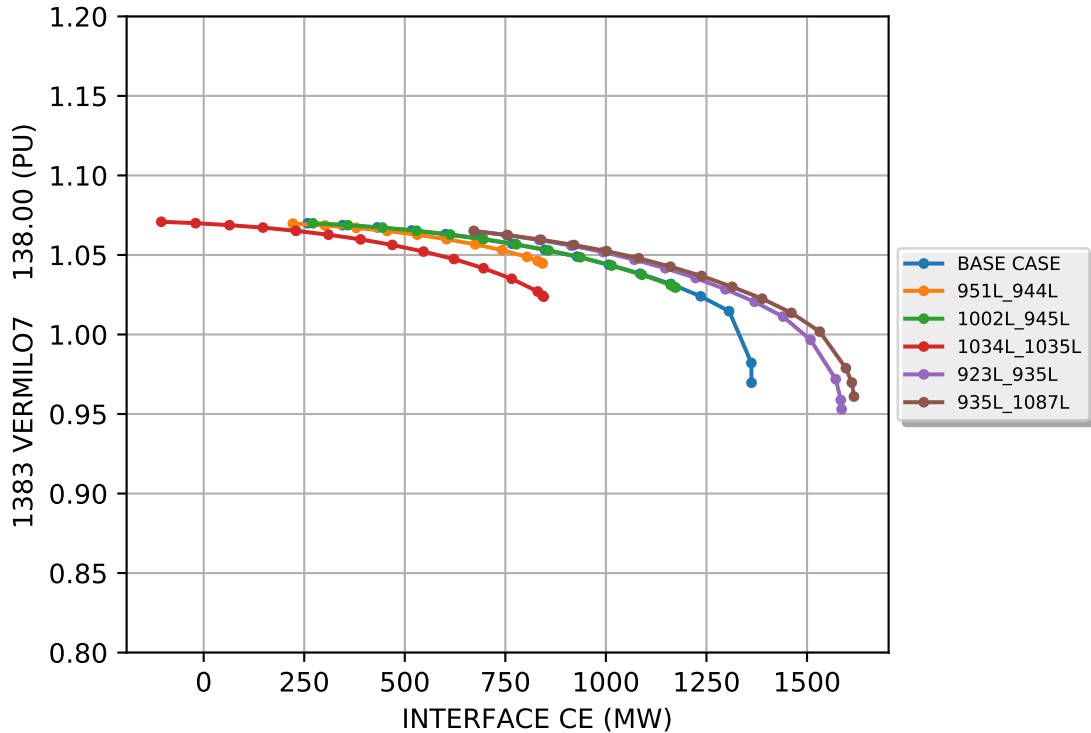


Figure: E-5-252

Case: M10, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 136.2%

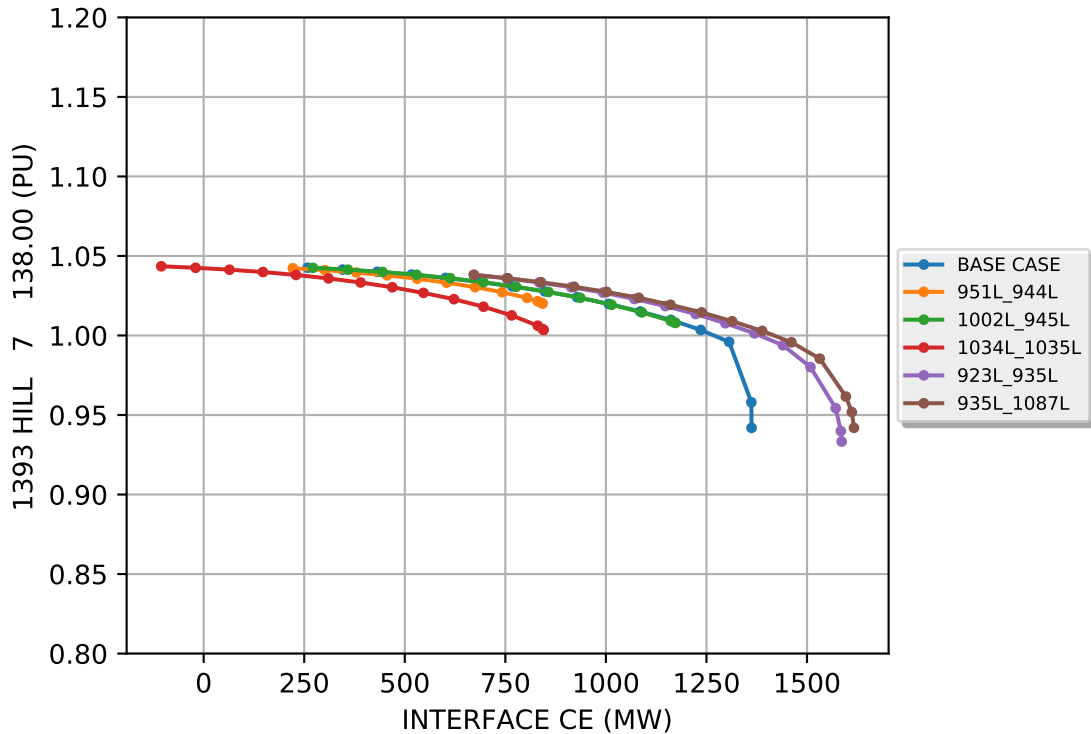
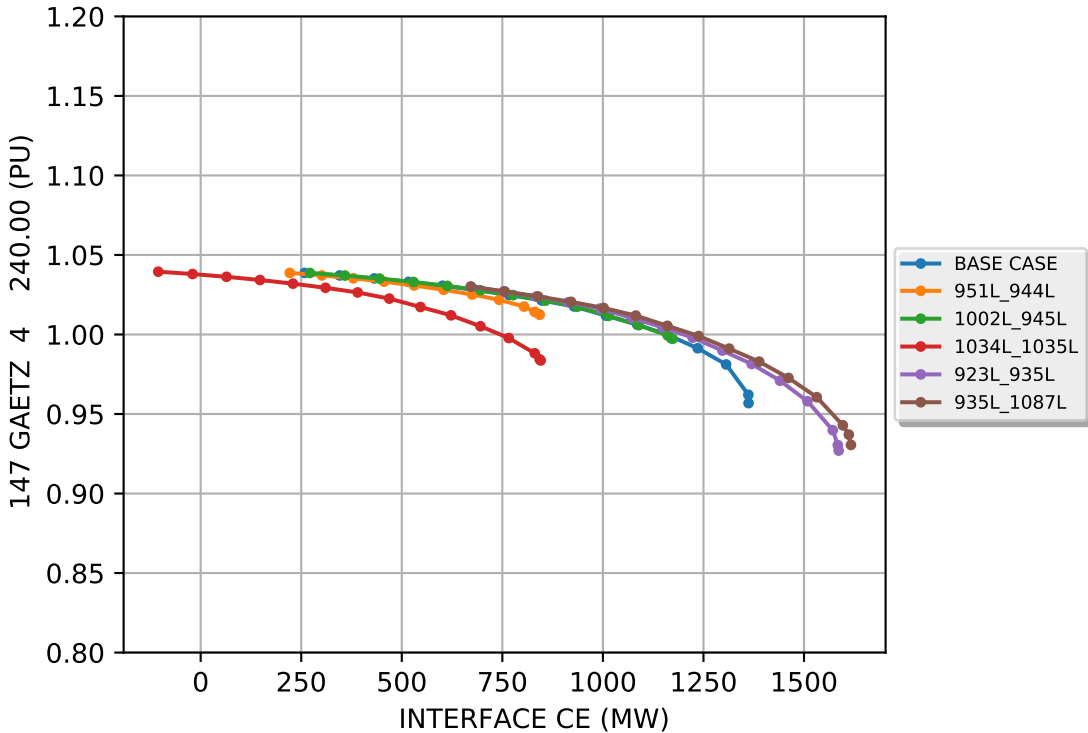


Figure: E-5-253

Case: M10, Option: BOTH

Min Voltage: 0.93 PU, Min Margin: 136.2%



Worst Case Summaries:

Min Voltage: 0.79 PU, Page: 229

Min Margin: 31.3%, Page: 198

Min Margin Maximum 0.9 PU Voltage: 31.3%, Page: 198

Voltages above 1.1 PU in pages:

Attachment E-6 - PV Results

CE, Option: Post CRPC + CETO 2 Ckts, Cat. C

Figure: E-6-1

Case: H1, Option: BOTHC2

Min Voltage: 0.83 PU, Min Margin: 35.6%

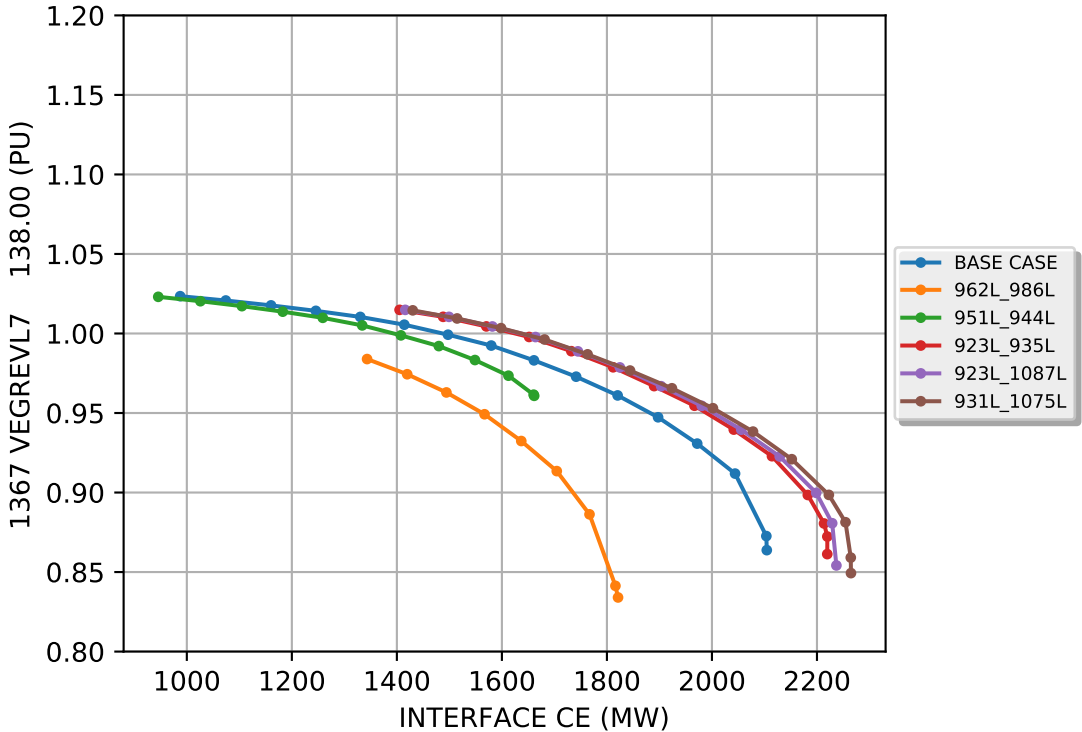


Figure: E-6-2

Case: H1, Option: BOTHC2

Min Voltage: 0.88 PU, Min Margin: 35.6%

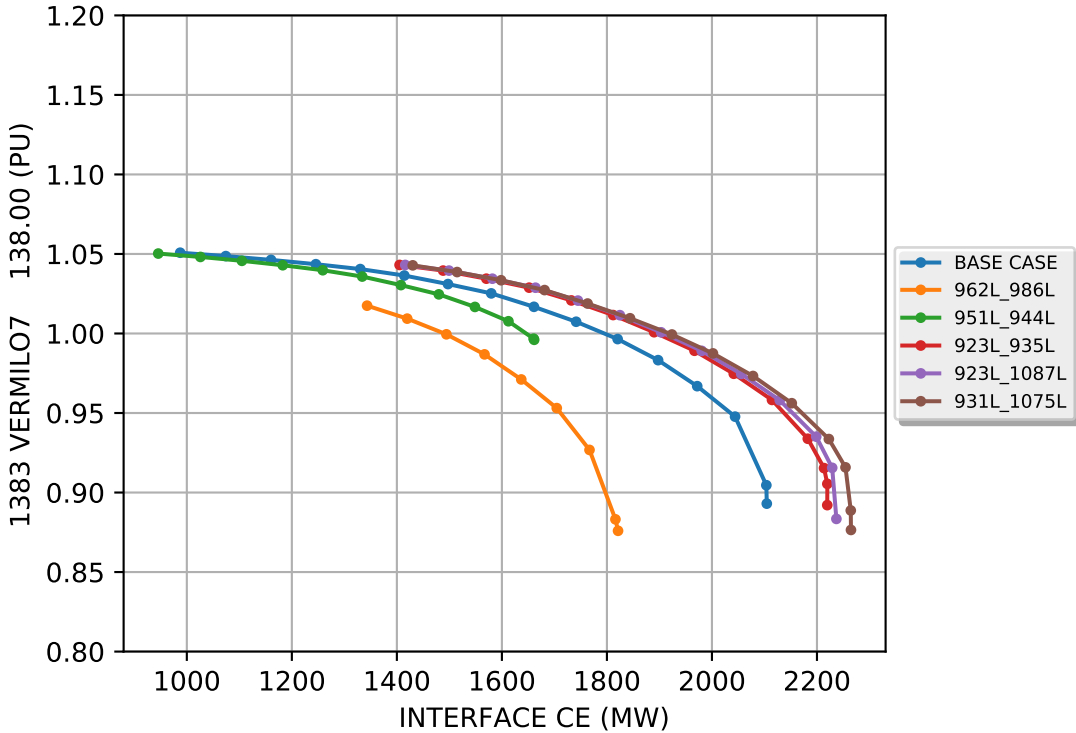


Figure: E-6-3

Case: H1, Option: BOTHC2

Min Voltage: 0.87 PU, Min Margin: 35.6%

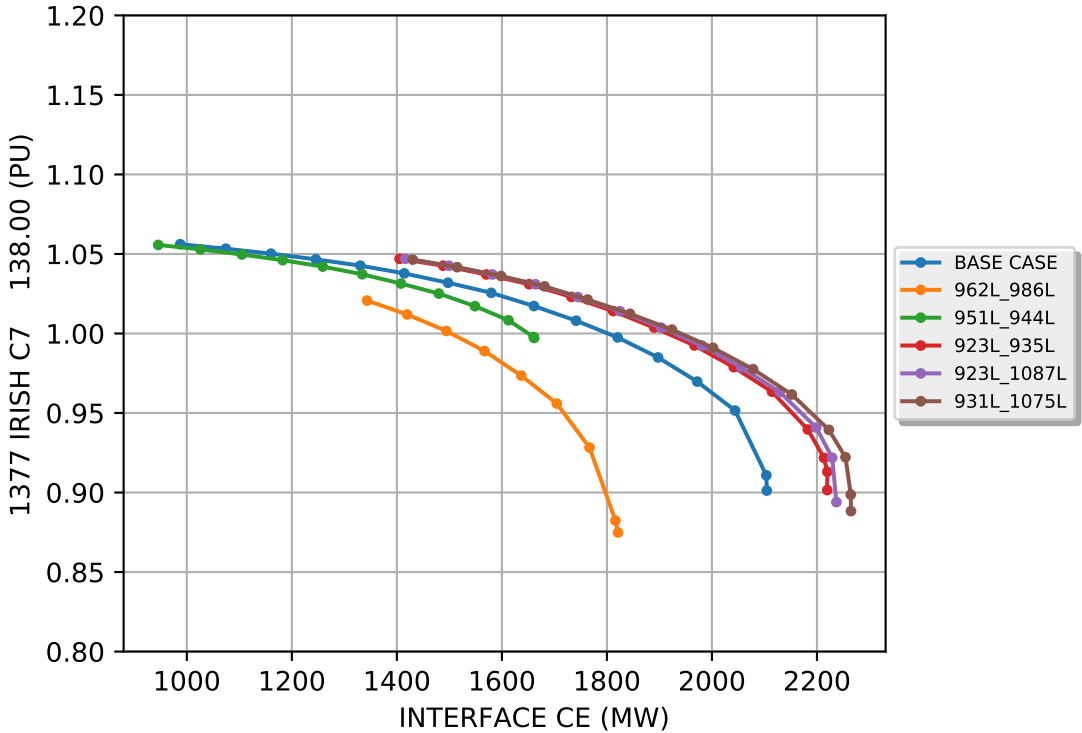


Figure: E-6-4

Case: H1, Option: BOTHC2

Min Voltage: 0.90 PU, Min Margin: 35.6%

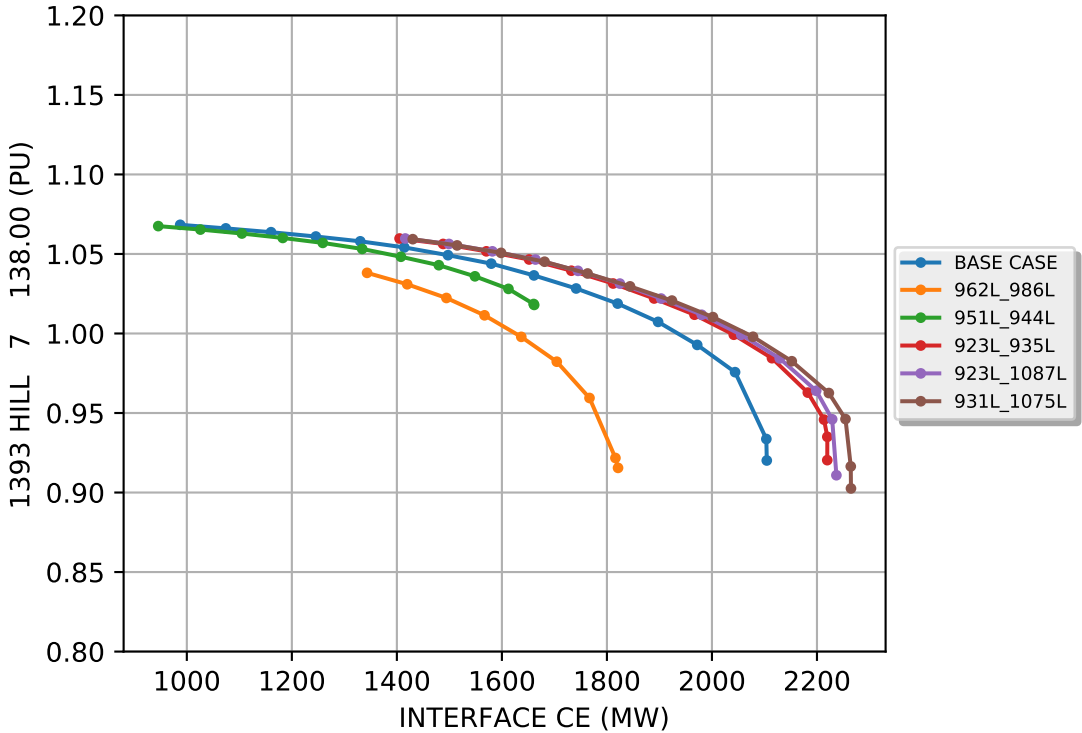


Figure: E-6-5

Case: H1, Option: BOTHC2

Min Voltage: 0.91 PU, Min Margin: 35.6%

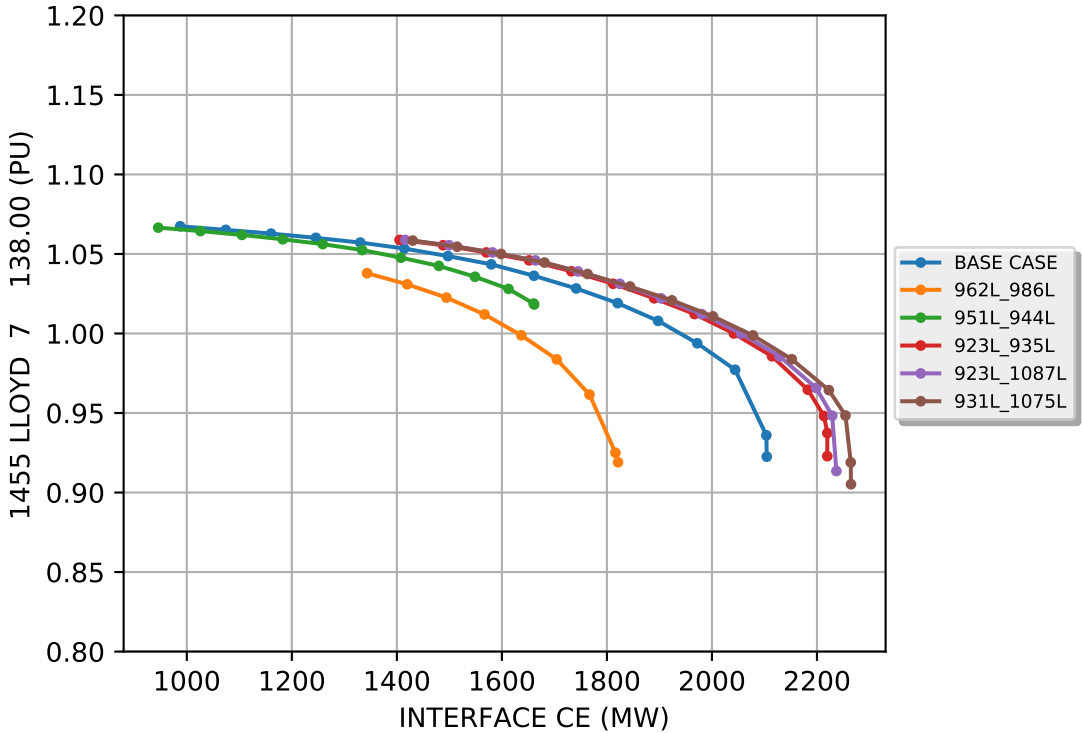


Figure: E-6-6

Case: H1, Option: BOTHC2

Min Voltage: 0.85 PU, Min Margin: 35.6%

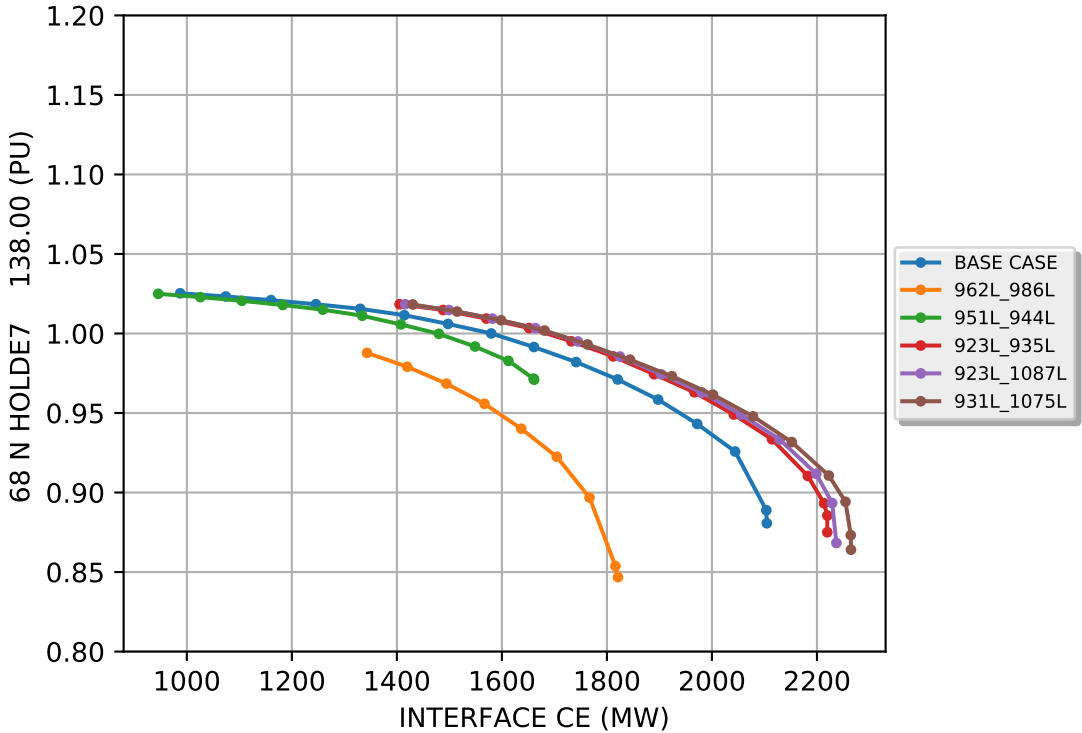


Figure: E-6-7

Case: H1, Option: BOTHC2

Min Voltage: 0.90 PU, Min Margin: 35.6%

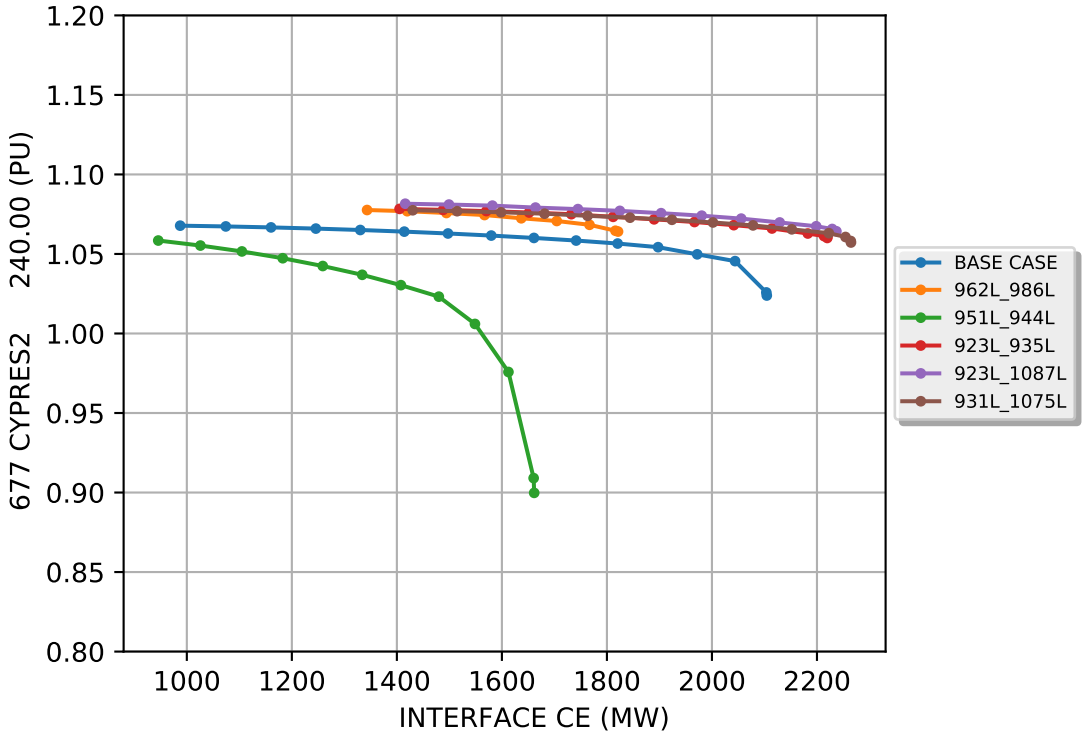


Figure: E-6-8

Case: H1, Option: BOTHC2

Min Voltage: 0.90 PU, Min Margin: 35.6%

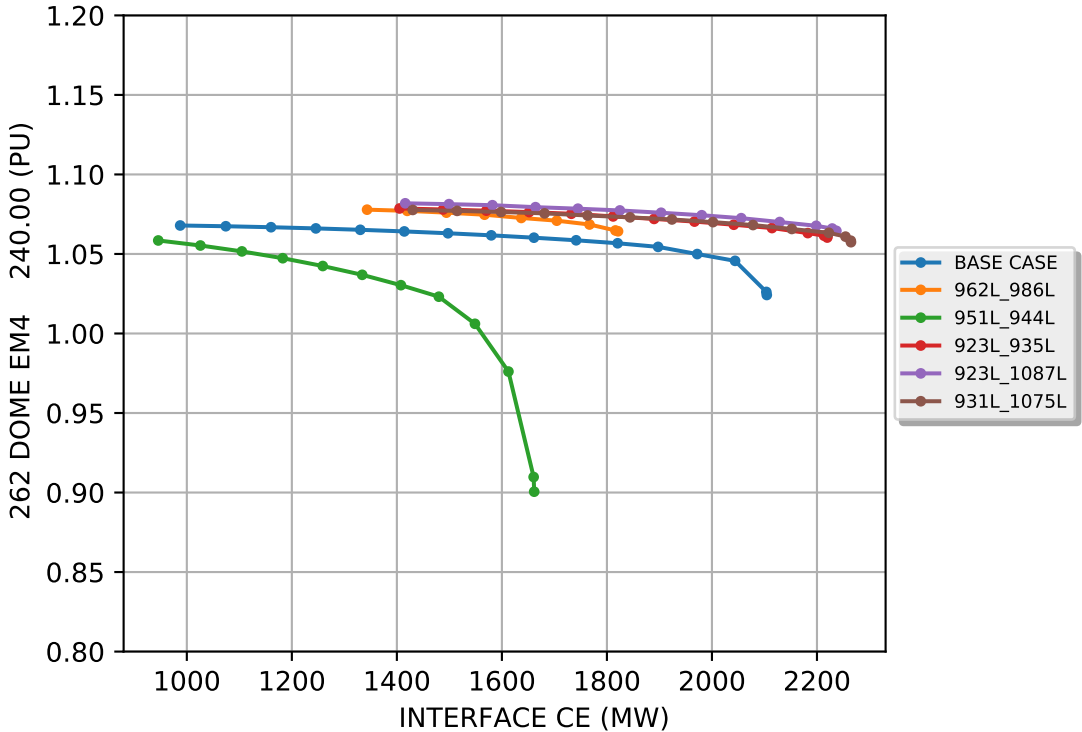


Figure: E-6-9

Case: H1, Option: BOTHC2

Min Voltage: 0.94 PU, Min Margin: 35.6%

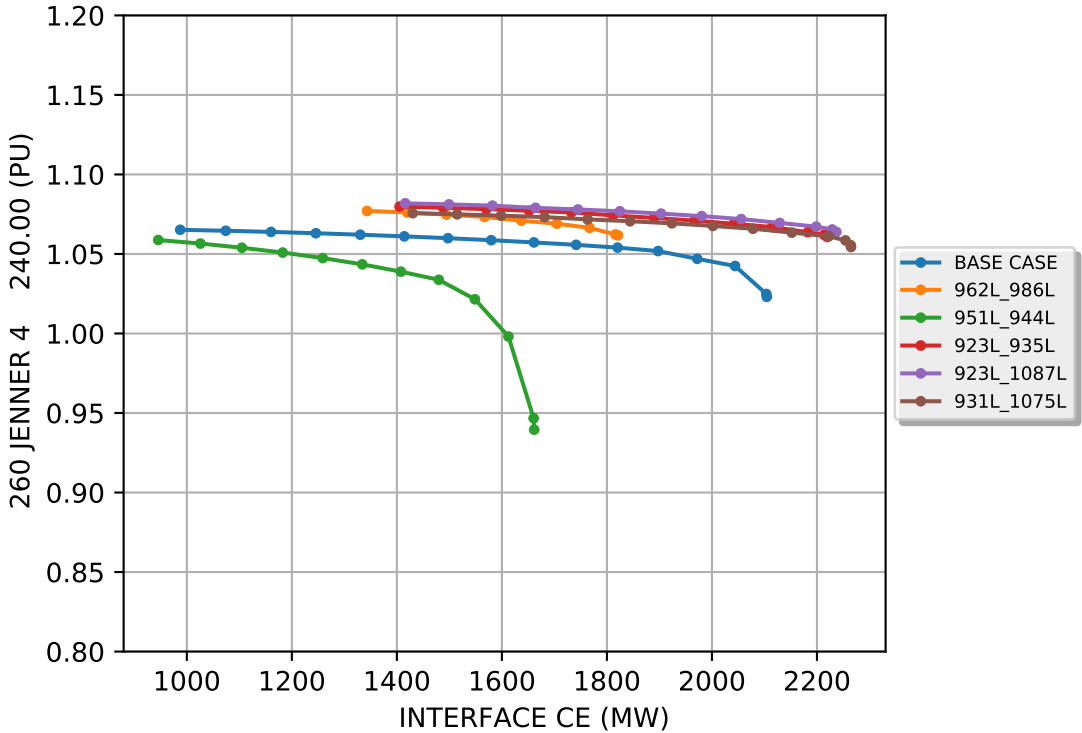


Figure: E-6-10

Case: H1, Option: BOTHC2

Min Voltage: 0.95 PU, Min Margin: 35.6%

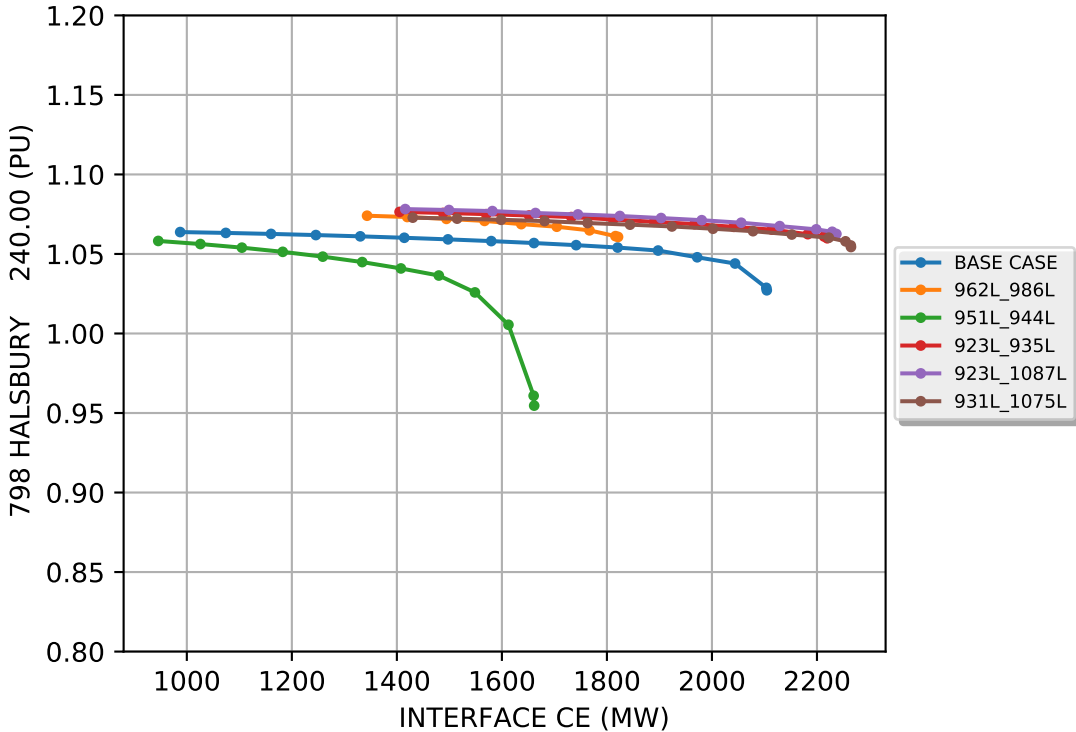


Figure: E-6-11

Case: H2, Option: BOTHC2

Min Voltage: 0.83 PU, Min Margin: 27.6%

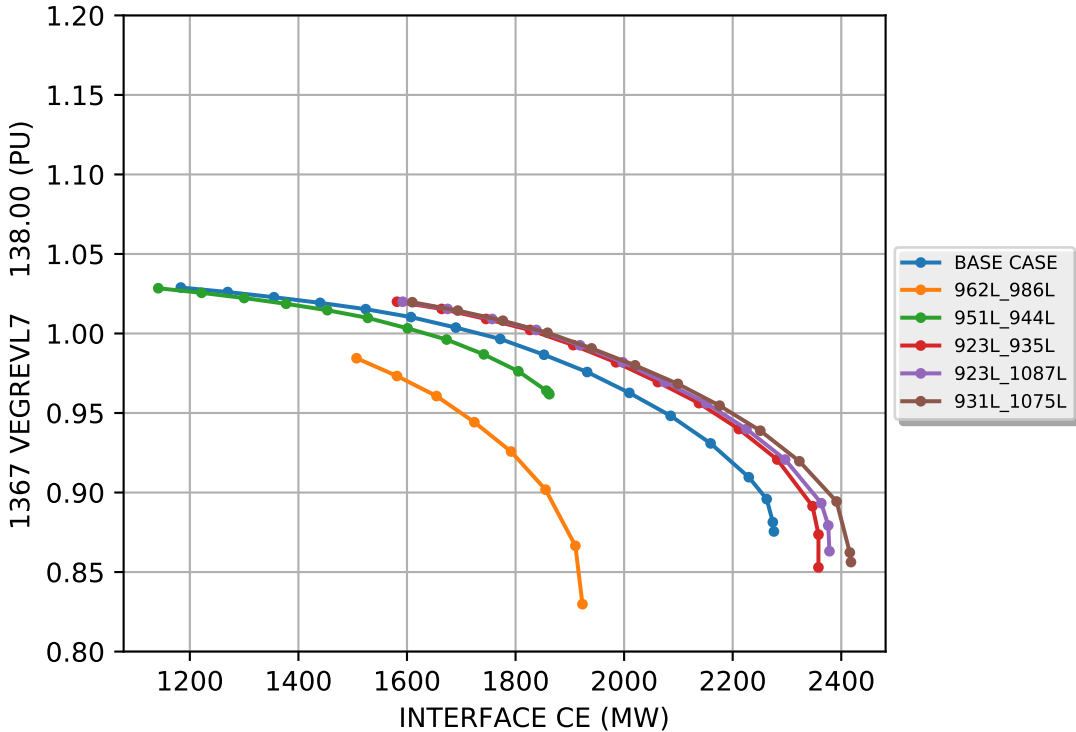


Figure: E-6-12

Case: H2, Option: BOTHC2

Min Voltage: 0.88 PU, Min Margin: 27.6%

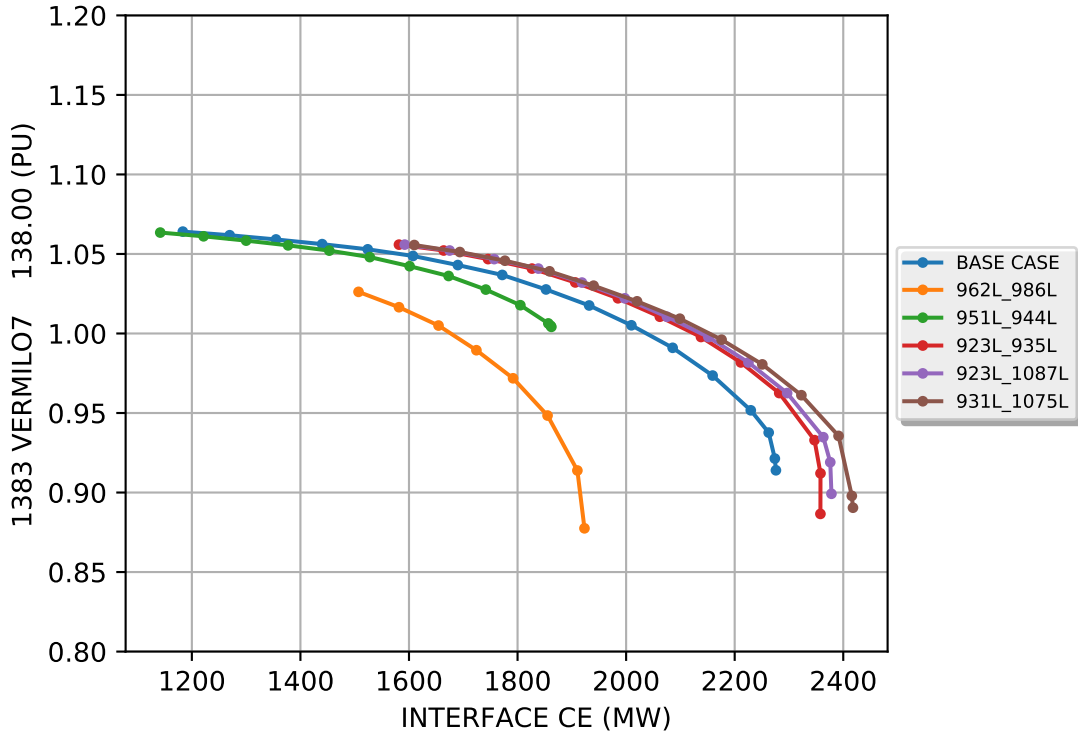


Figure: E-6-13

Case: H2, Option: BOTHC2

Min Voltage: 0.88 PU, Min Margin: 27.6%

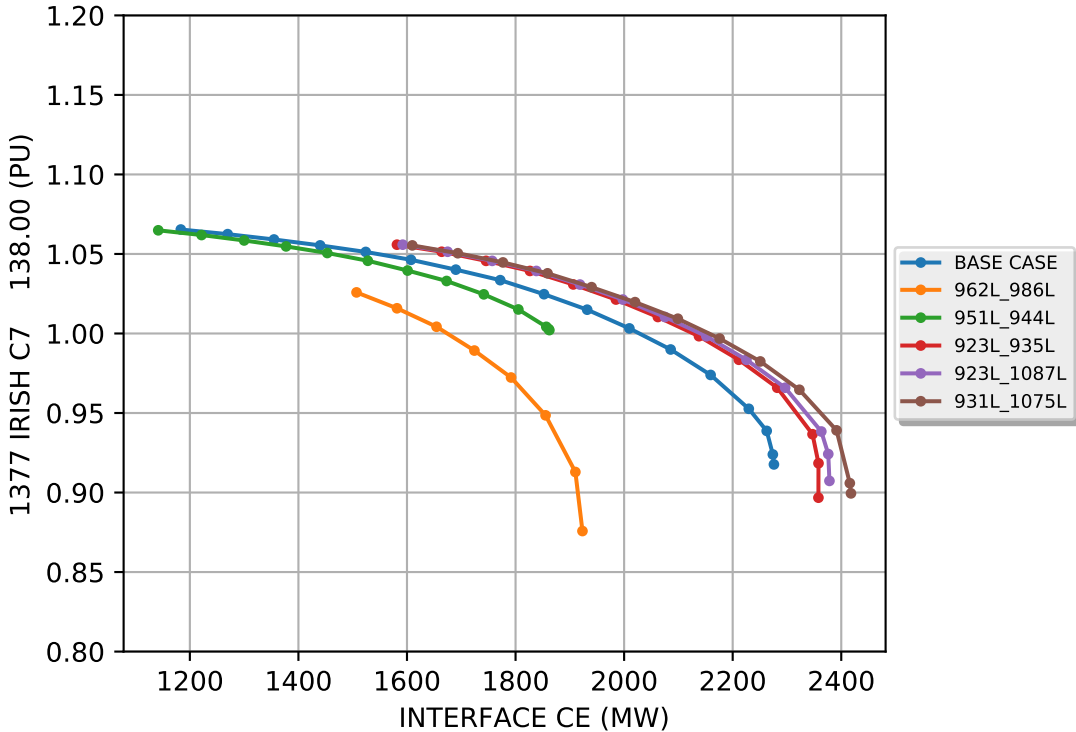


Figure: E-6-14

Case: H2, Option: BOTHC2

Min Voltage: 0.84 PU, Min Margin: 27.6%

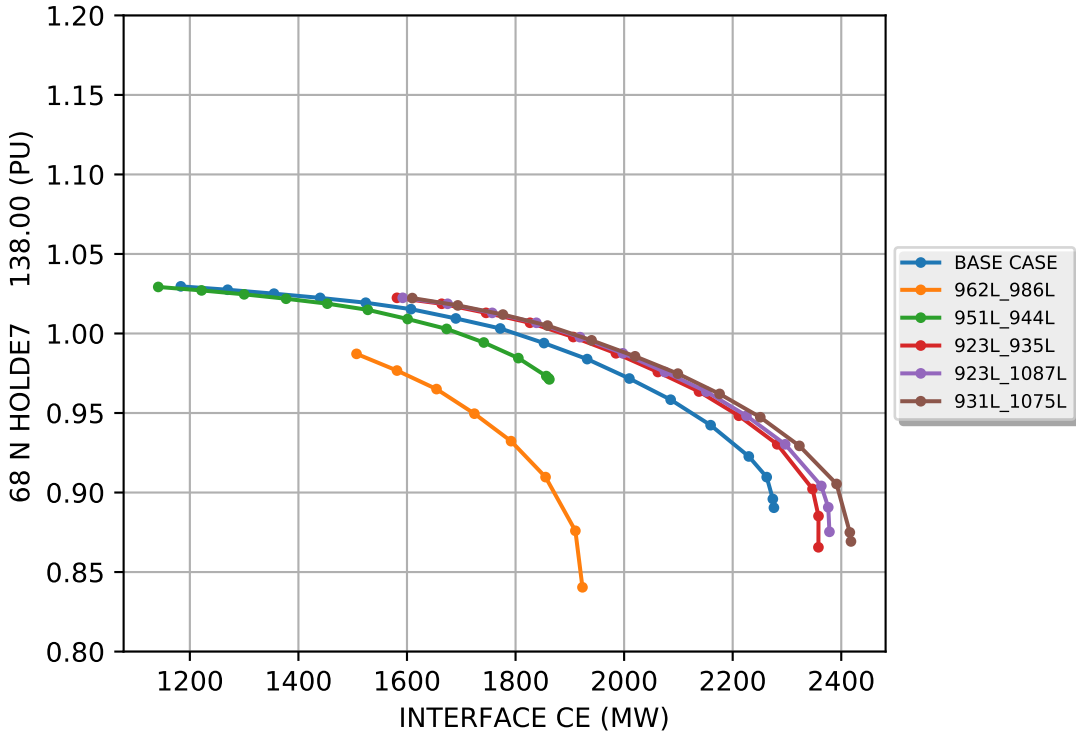


Figure: E-6-15

Case: H2, Option: BOTHC2

Min Voltage: 0.91 PU, Min Margin: 27.6%

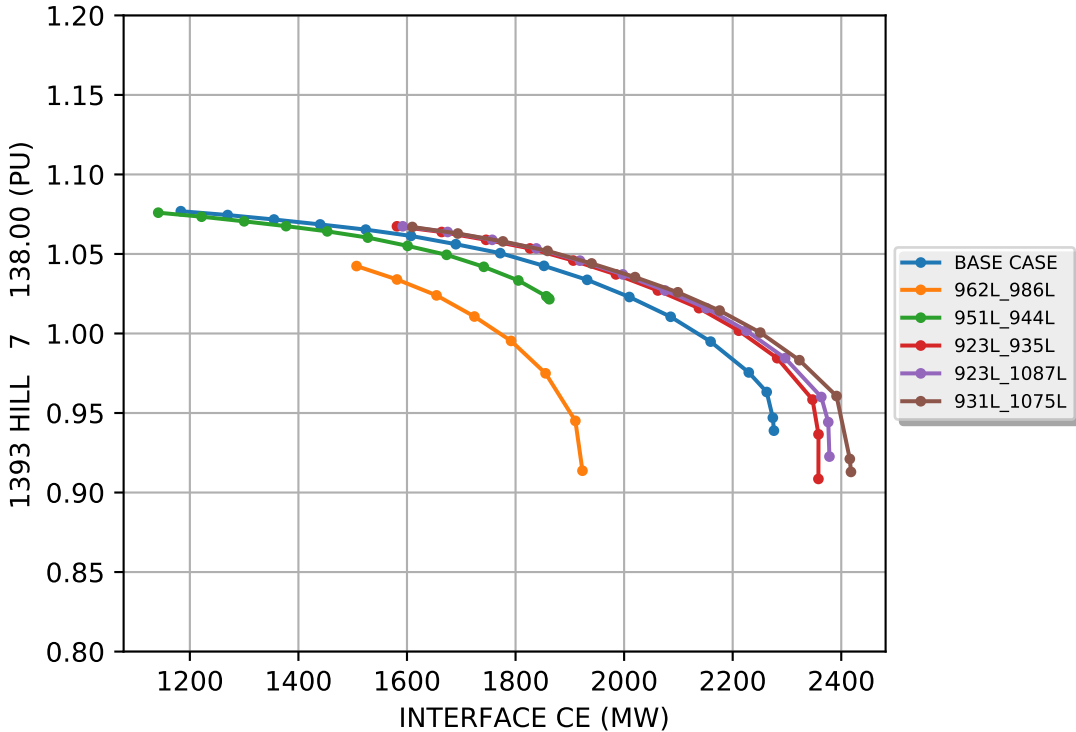


Figure: E-6-16

Case: H2, Option: BOTHC2

Min Voltage: 0.91 PU, Min Margin: 27.6%

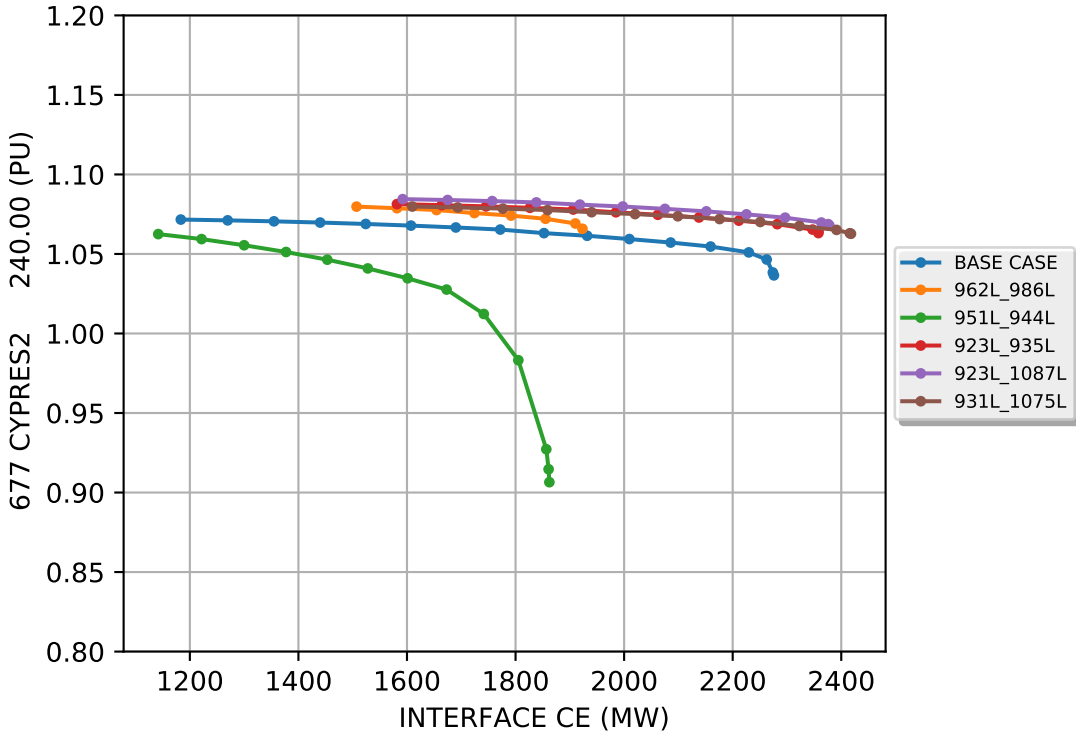


Figure: E-6-17

Case: H2, Option: BOTHC2

Min Voltage: 0.91 PU, Min Margin: 27.6%

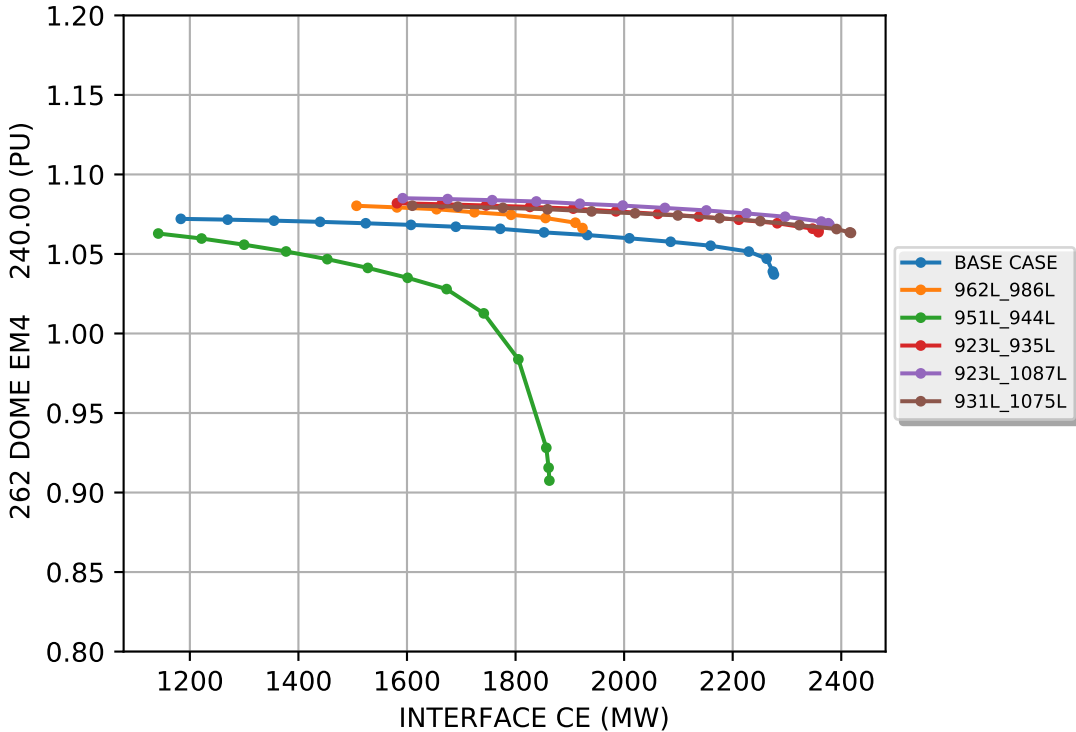


Figure: E-6-18

Case: H2, Option: BOTHC2

Min Voltage: 0.94 PU, Min Margin: 27.6%

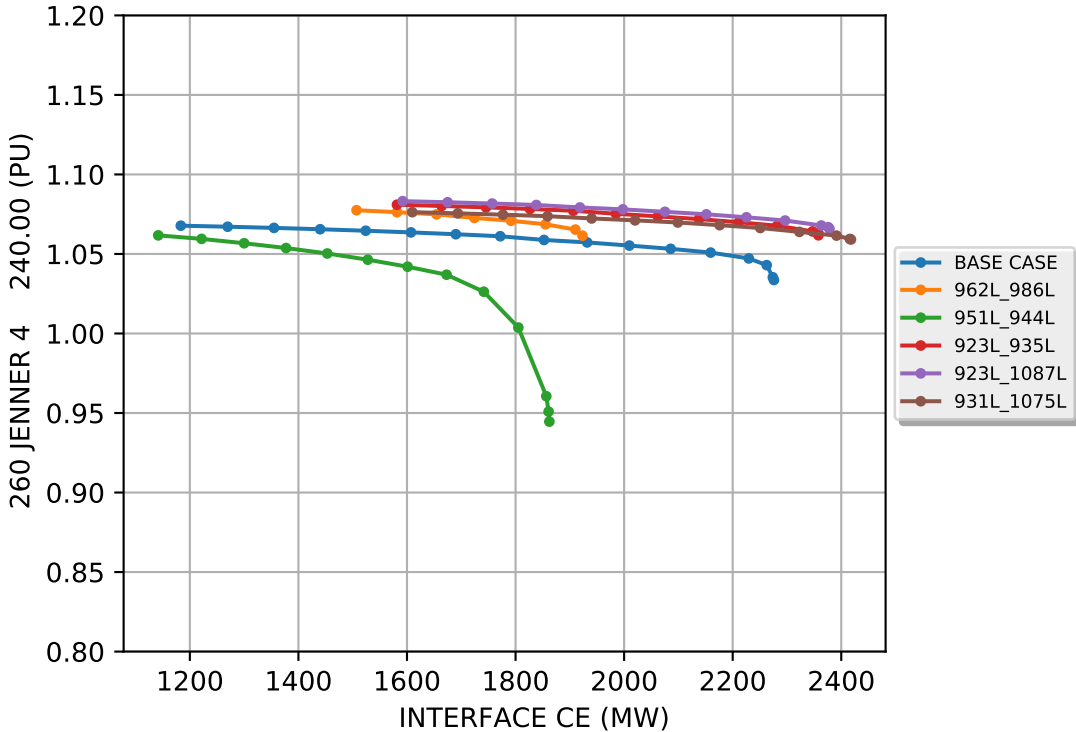


Figure: E-6-19

Case: H2, Option: BOTHC2

Min Voltage: 0.96 PU, Min Margin: 27.6%

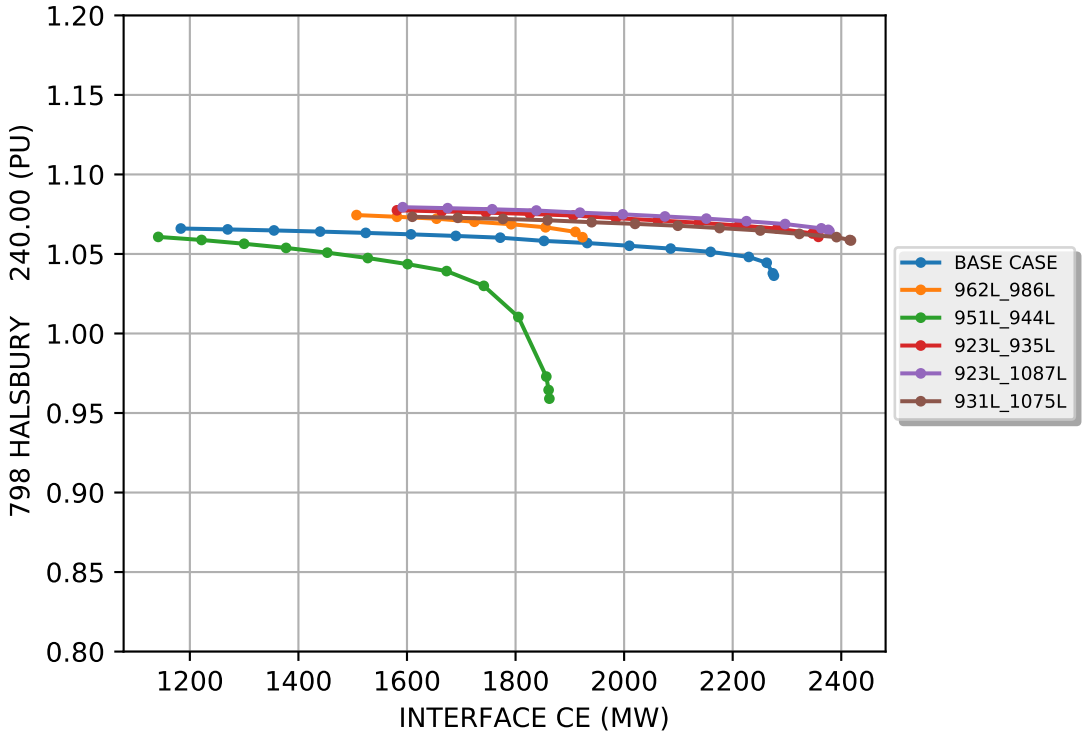


Figure: E-6-20

Case: M4, Option: BOTH2

Min Voltage: 0.84 PU, Min Margin: 23.9%

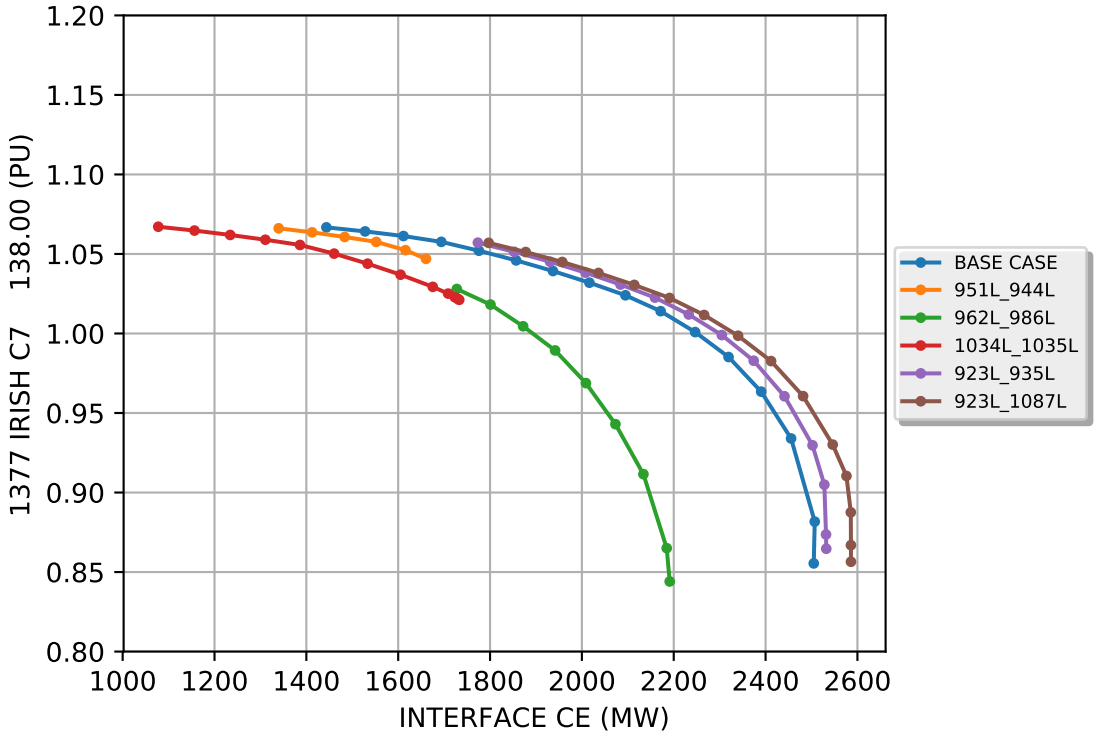


Figure: E-6-21

Case: M4, Option: BOTH2

Min Voltage: 0.80 PU, Min Margin: 23.9%

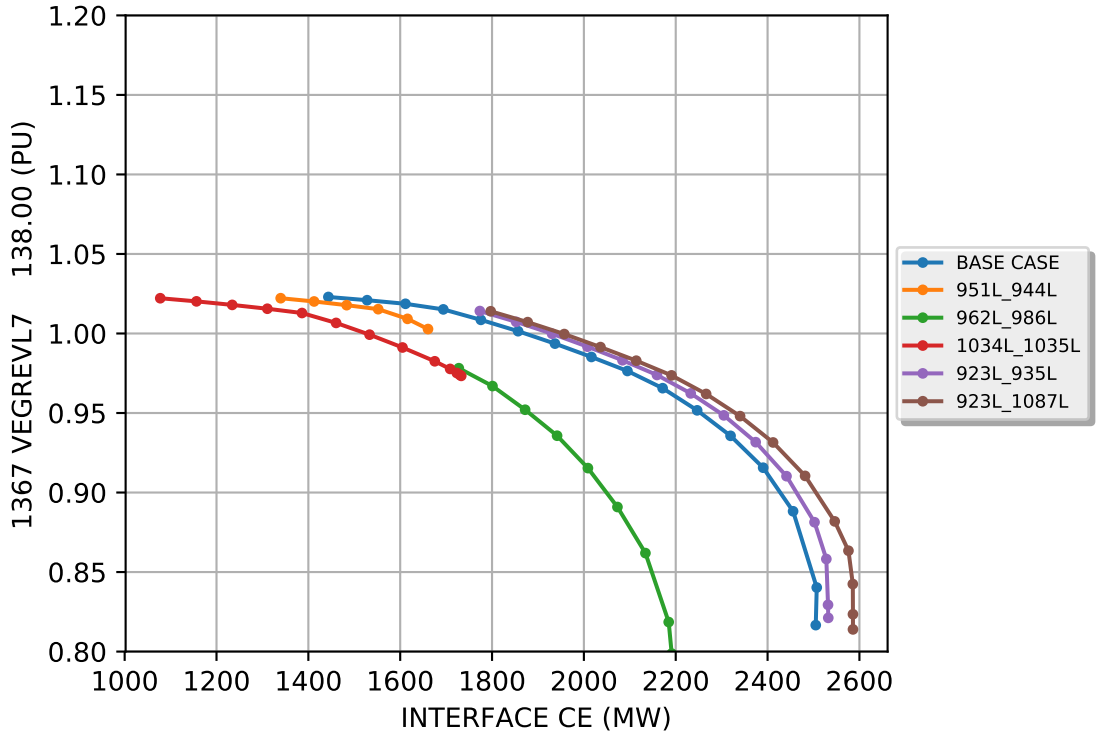


Figure: E-6-22

Case: M4, Option: BOTH2

Min Voltage: 0.88 PU, Min Margin: 23.9%

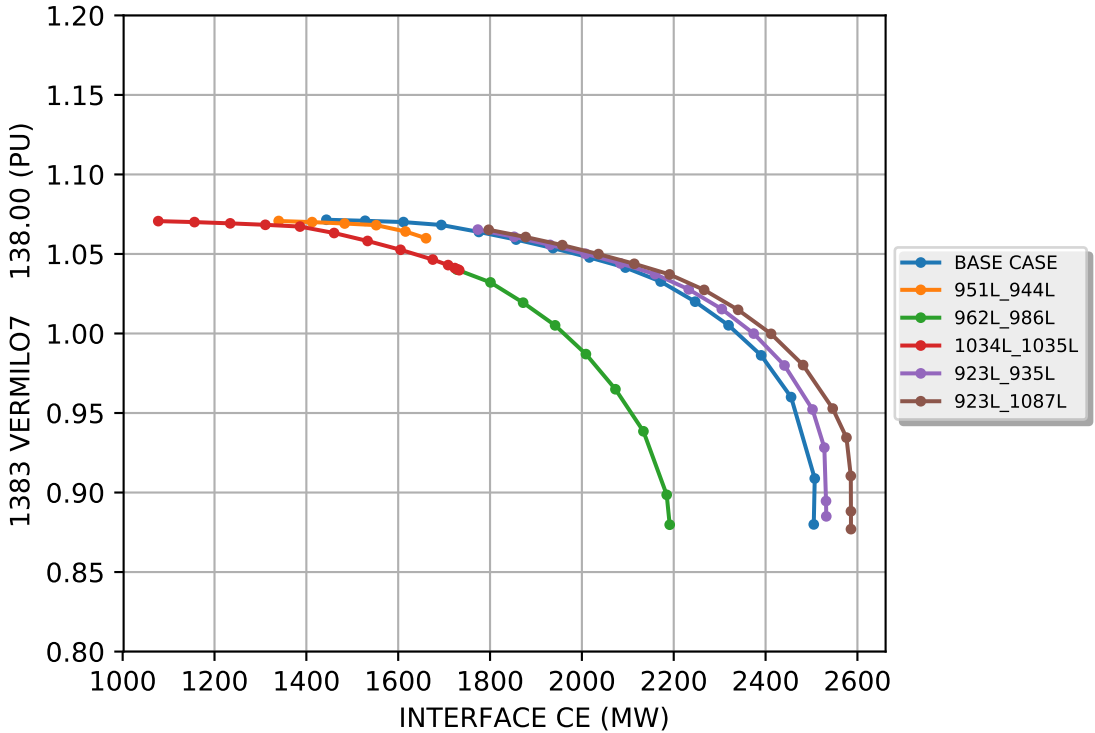


Figure: E-6-23

Case: M4, Option: BOTH2

Min Voltage: 0.81 PU, Min Margin: 23.9%

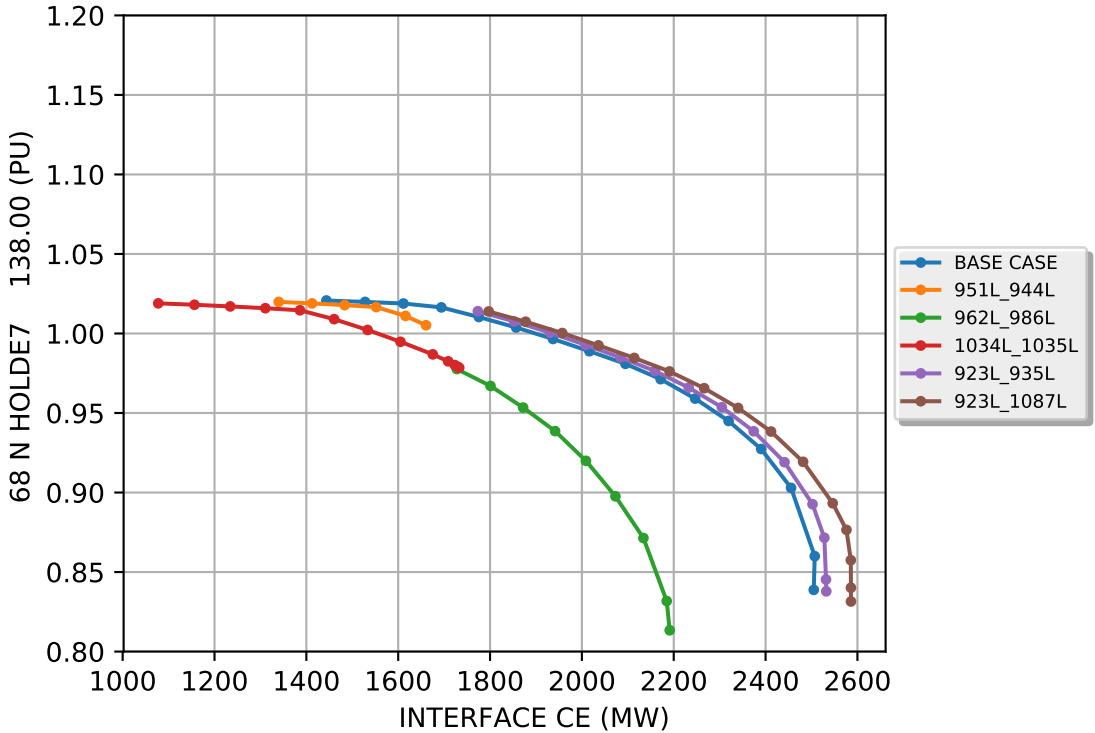


Figure: E-6-24

Case: M4, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 23.9%

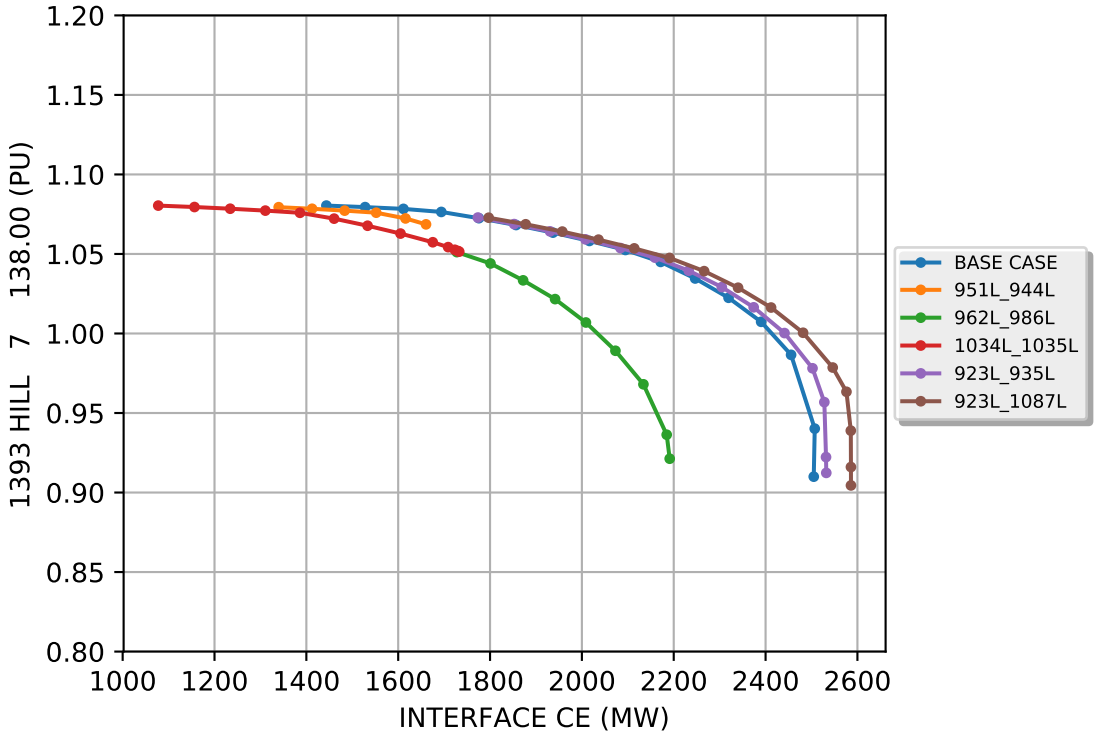


Figure: E-6-25

Case: M4, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 23.9%

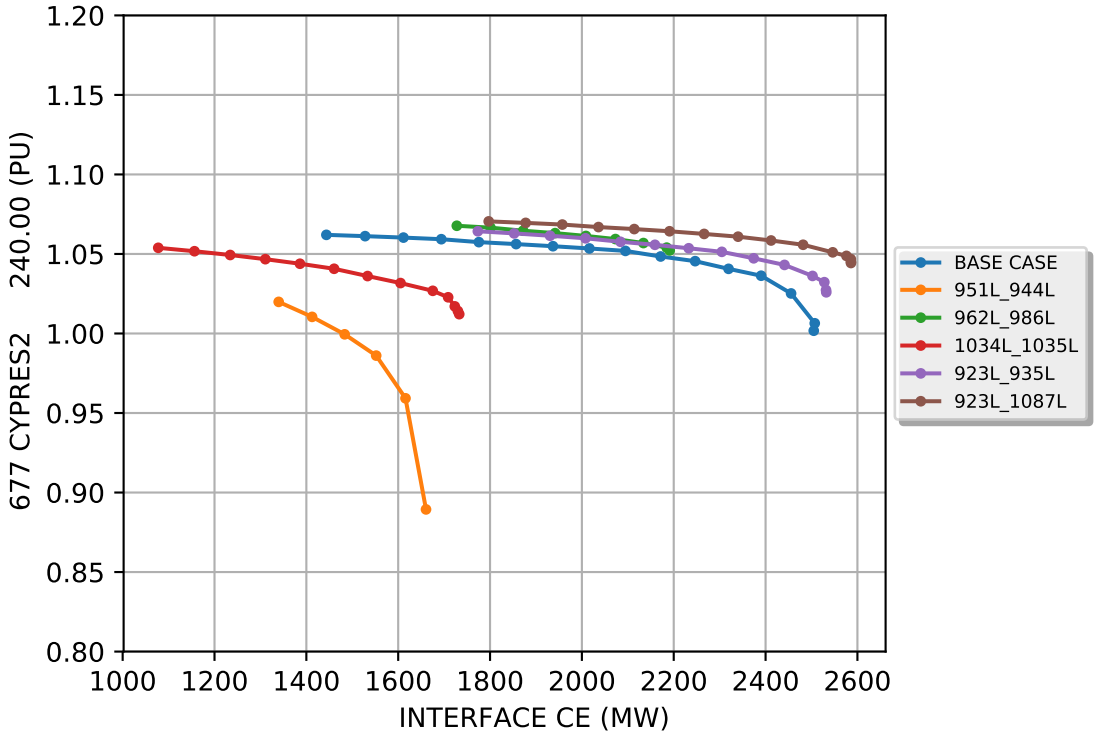


Figure: E-6-26

Case: M4, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 23.9%

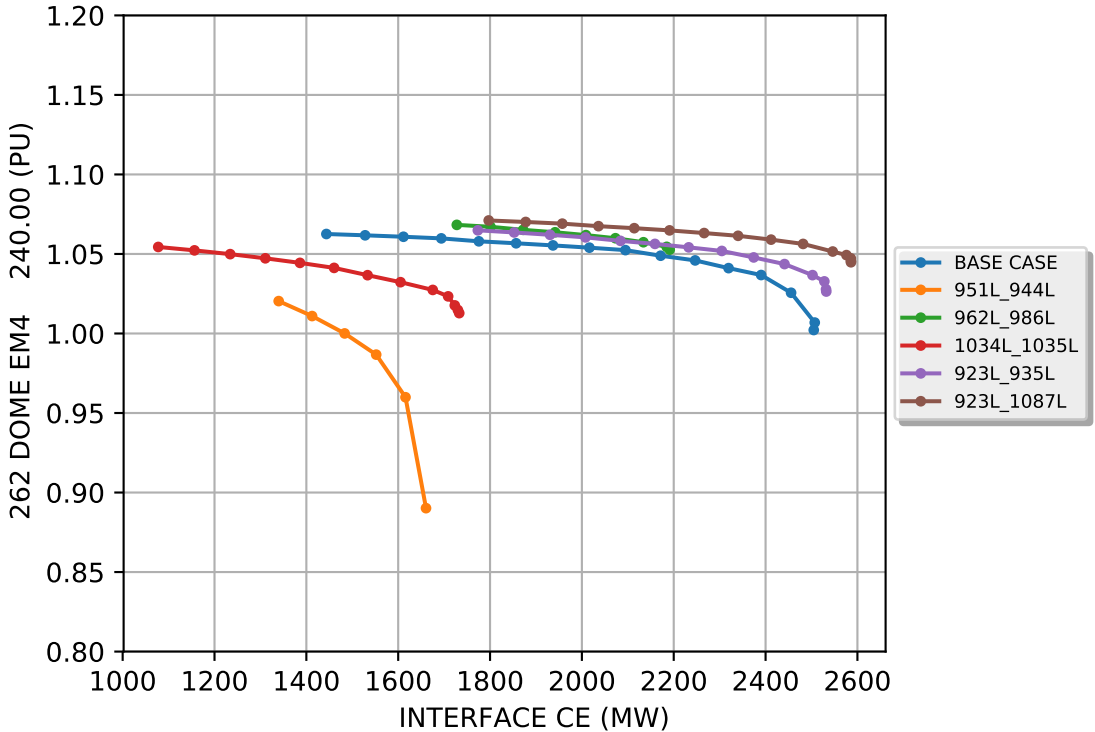


Figure: E-6-27

Case: M4, Option: BOTH2

Min Voltage: 0.94 PU, Min Margin: 23.9%

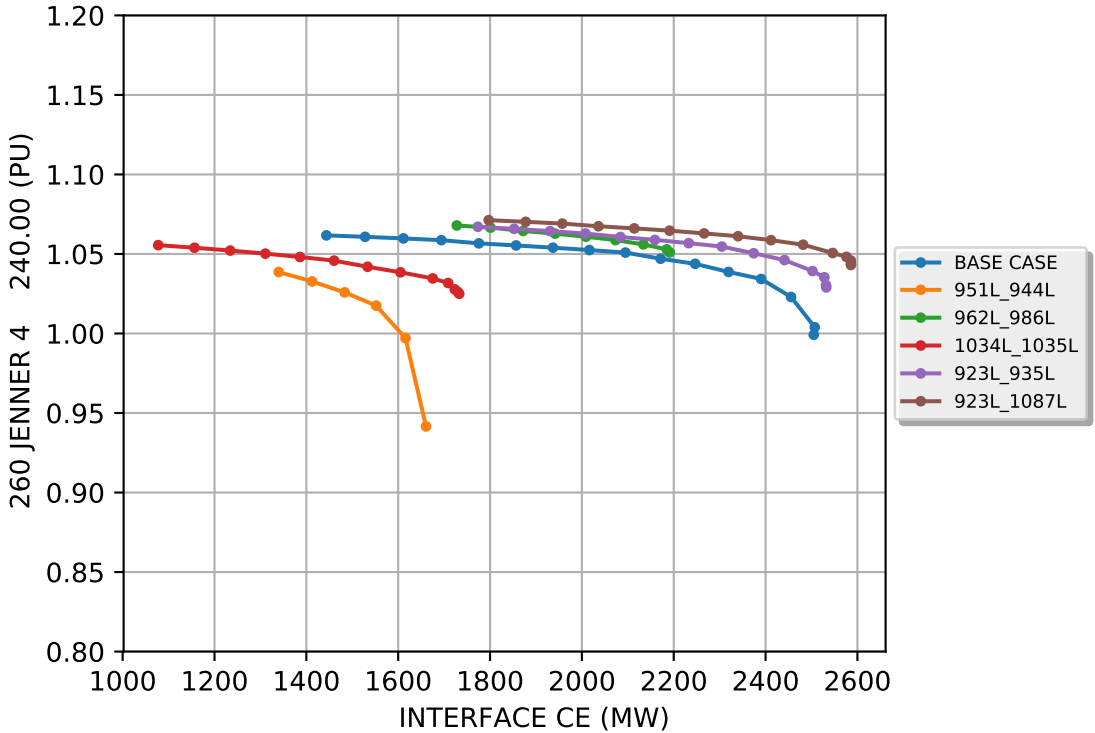


Figure: E-6-28

Case: M4, Option: BOTH2

Min Voltage: 0.96 PU, Min Margin: 23.9%

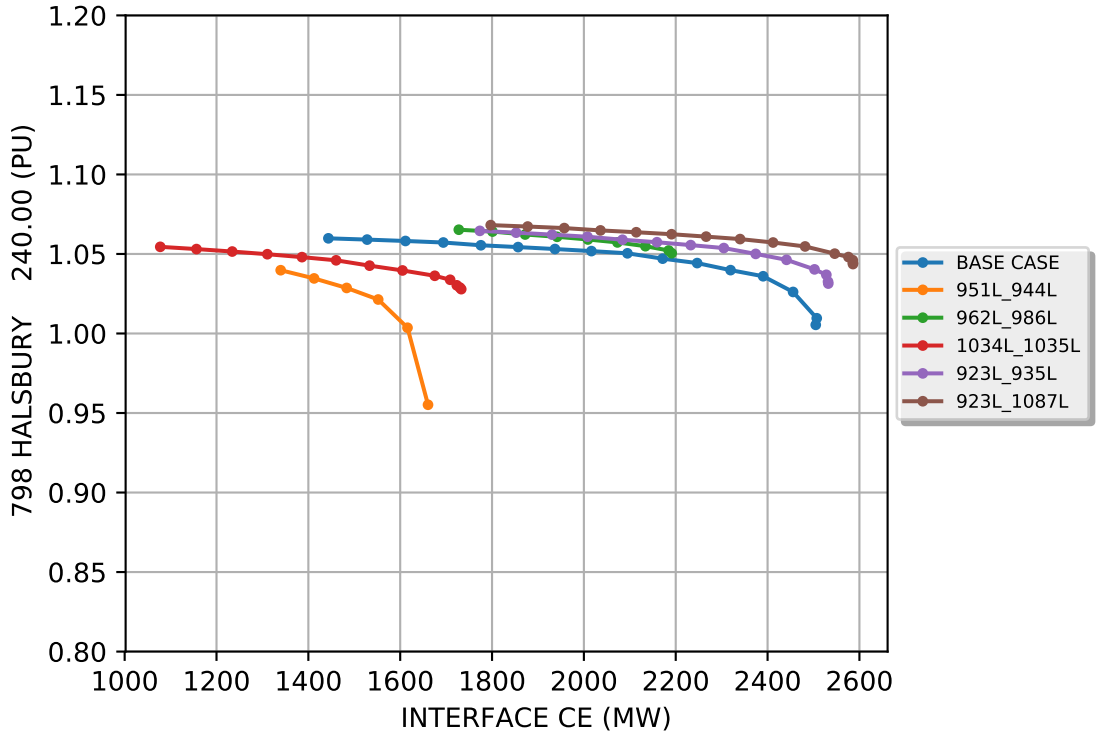


Figure: E-6-29

Case: M4, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 23.9%

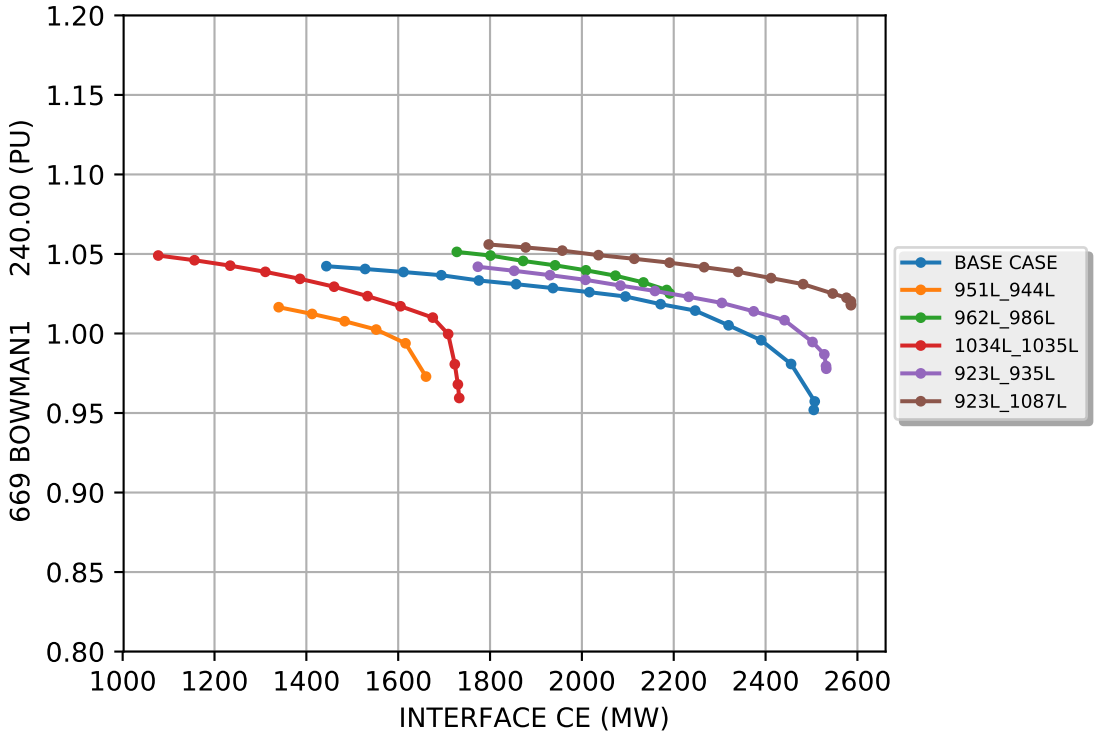


Figure: E-6-30

Case: M1, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 56.3%

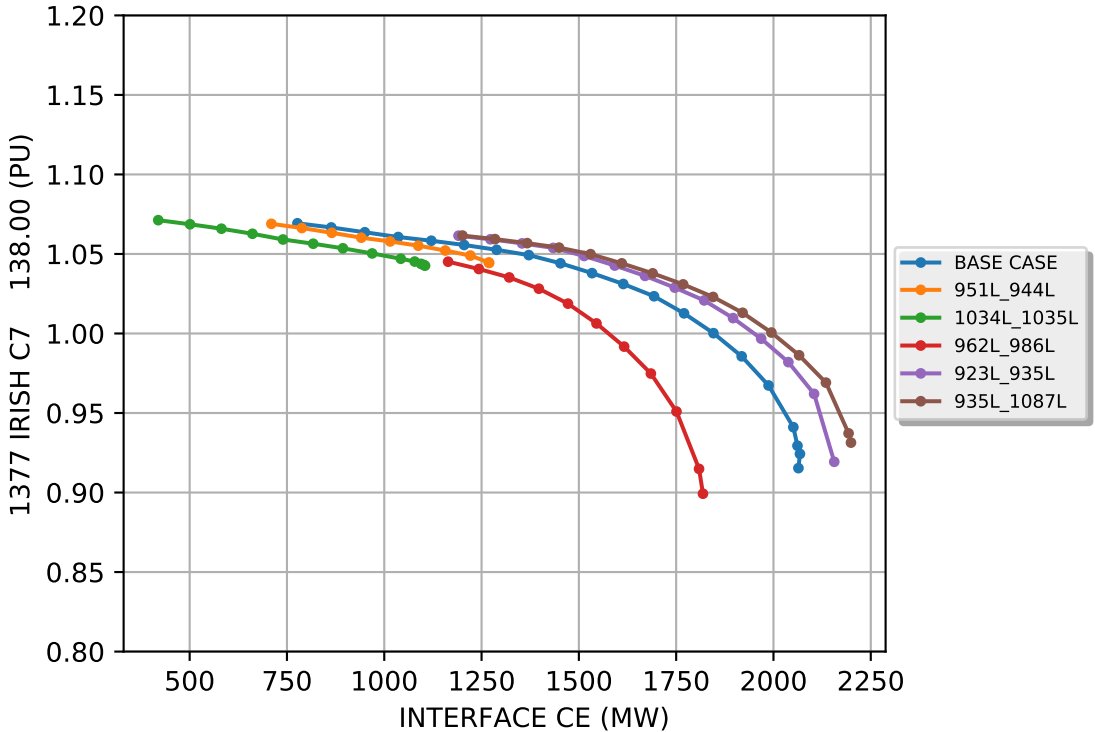


Figure: E-6-31

Case: M1, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 56.3%

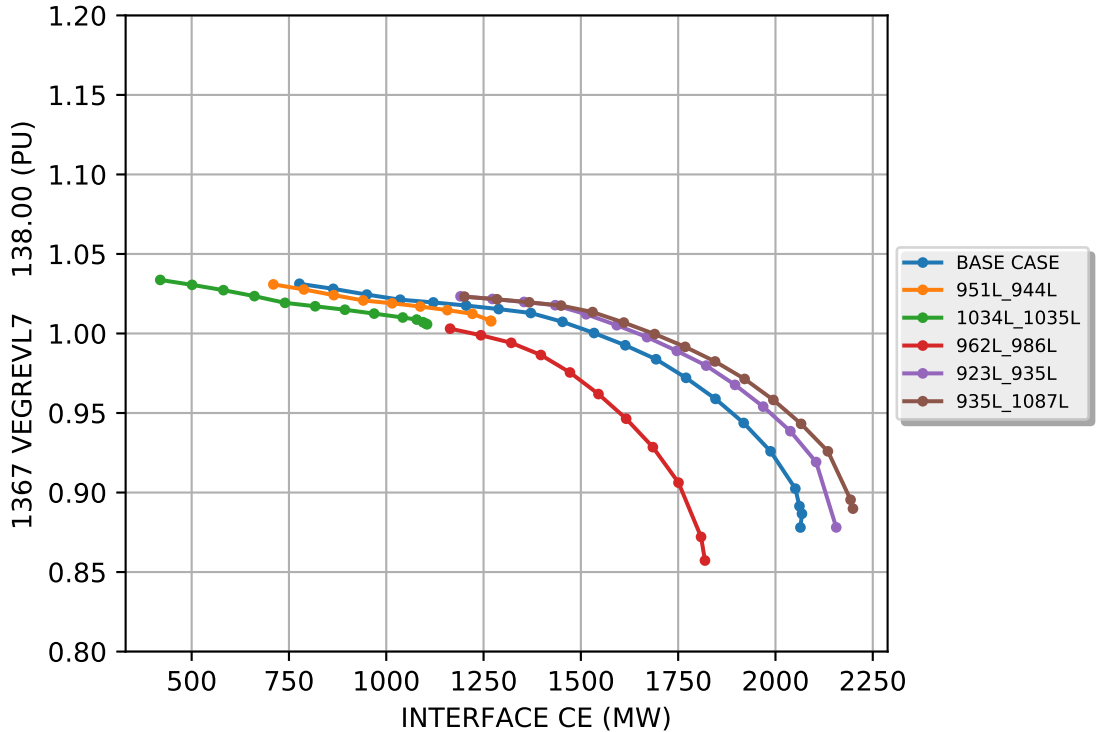


Figure: E-6-32

Case: M1, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 56.3%

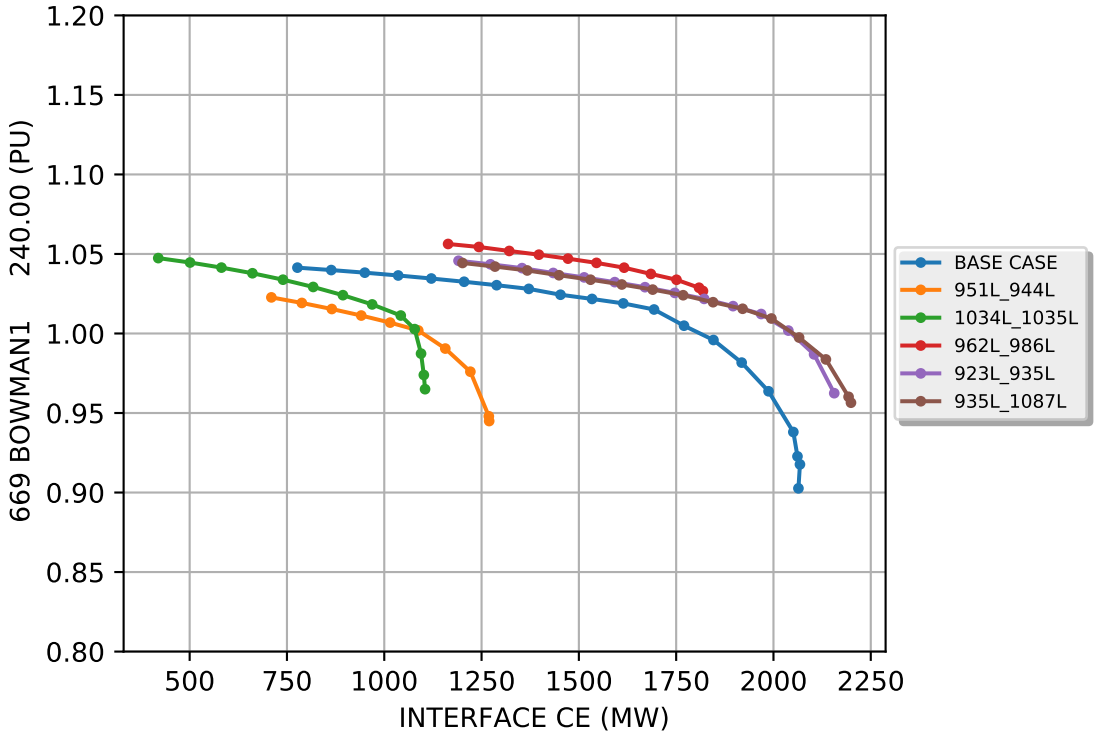


Figure: E-6-33

Case: M1, Option: BOTH2

Min Voltage: 0.87 PU, Min Margin: 56.3%

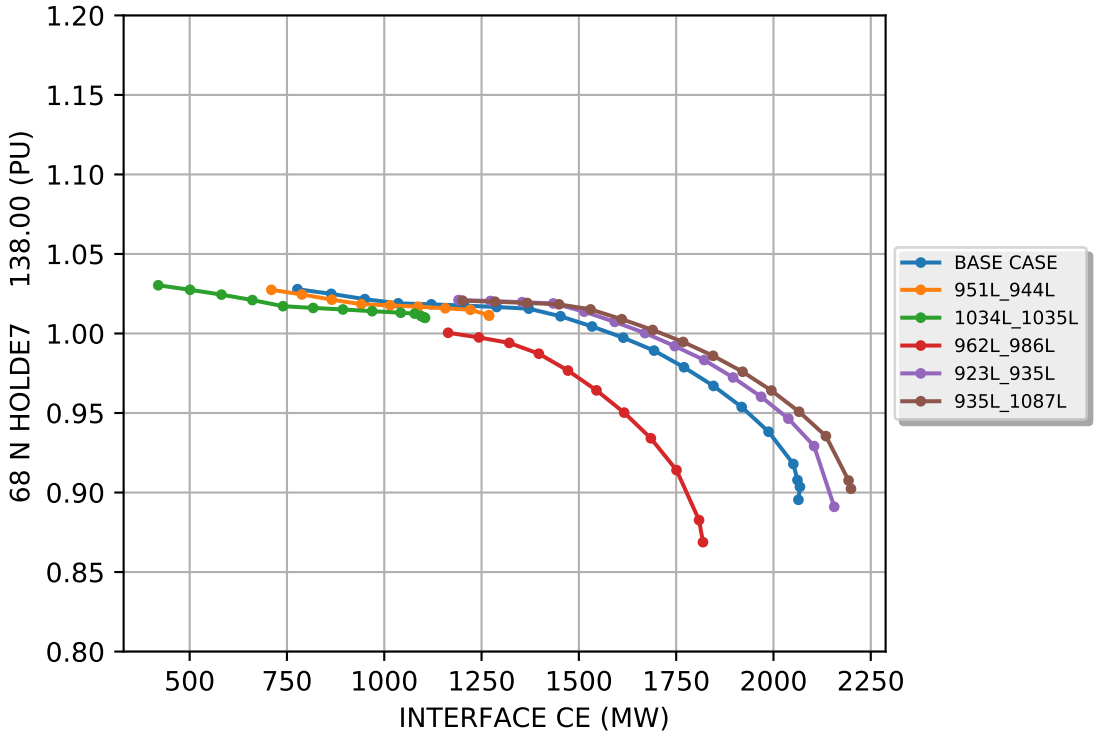


Figure: E-6-34

Case: M1, Option: BOTH2

Min Voltage: 0.92 PU, Min Margin: 56.3%

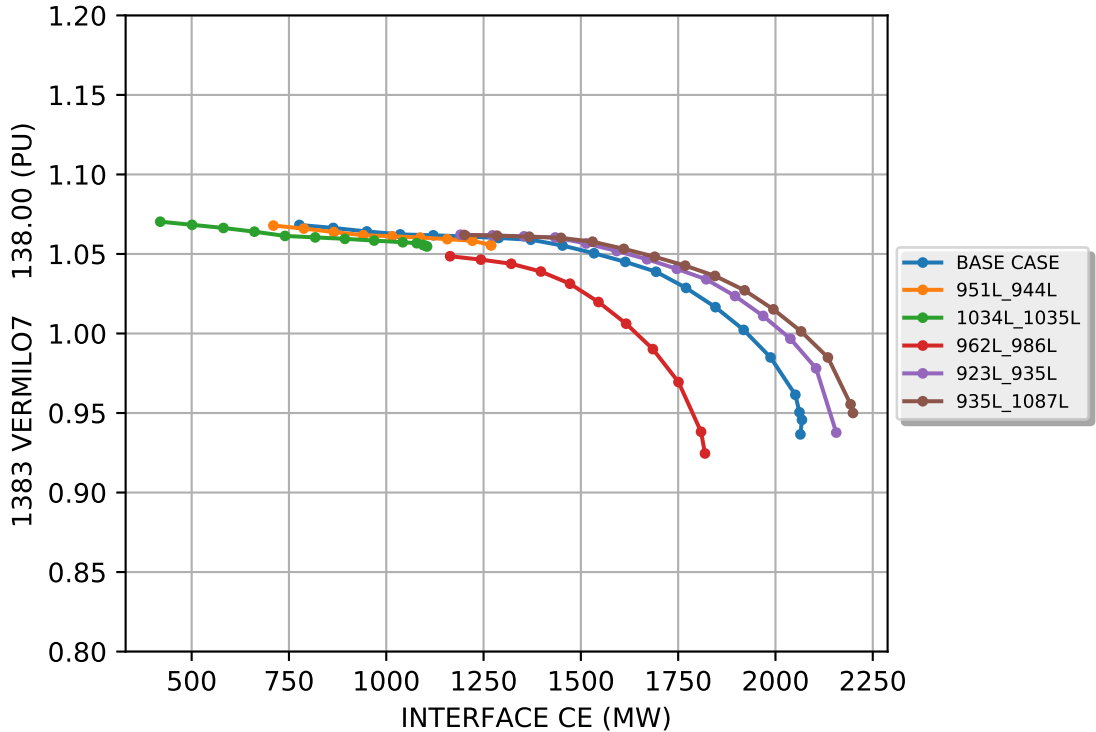


Figure: E-6-35

Case: M1, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 56.3%

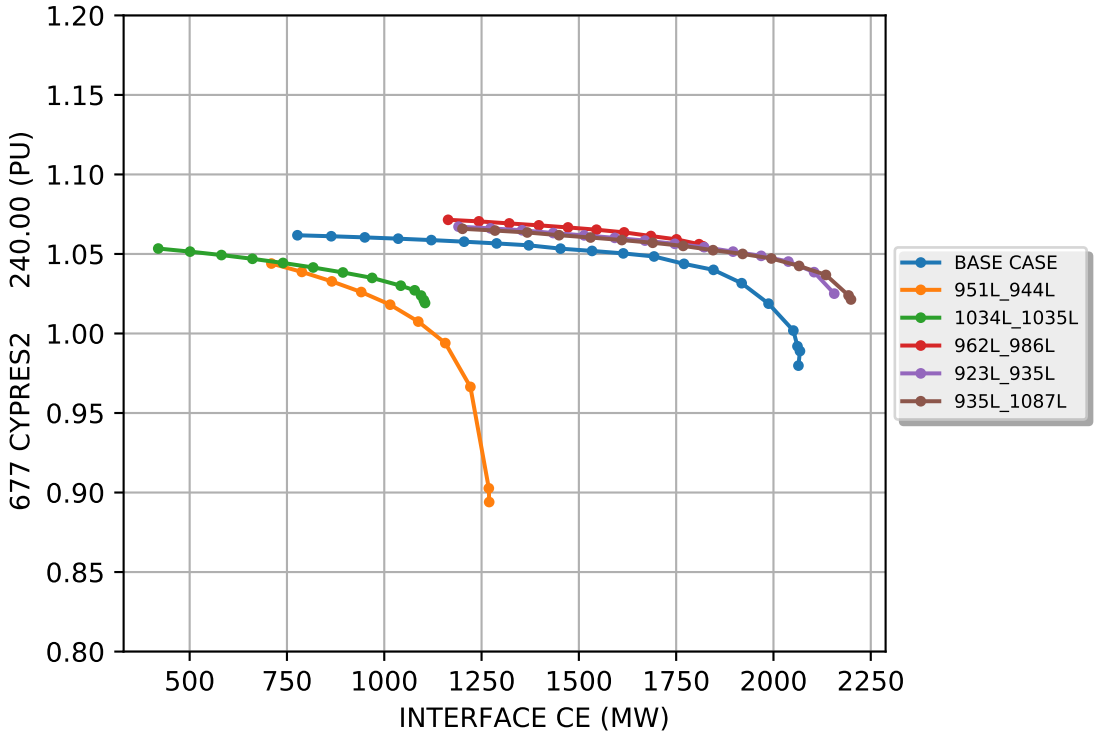


Figure: E-6-36

Case: M1, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 56.3%

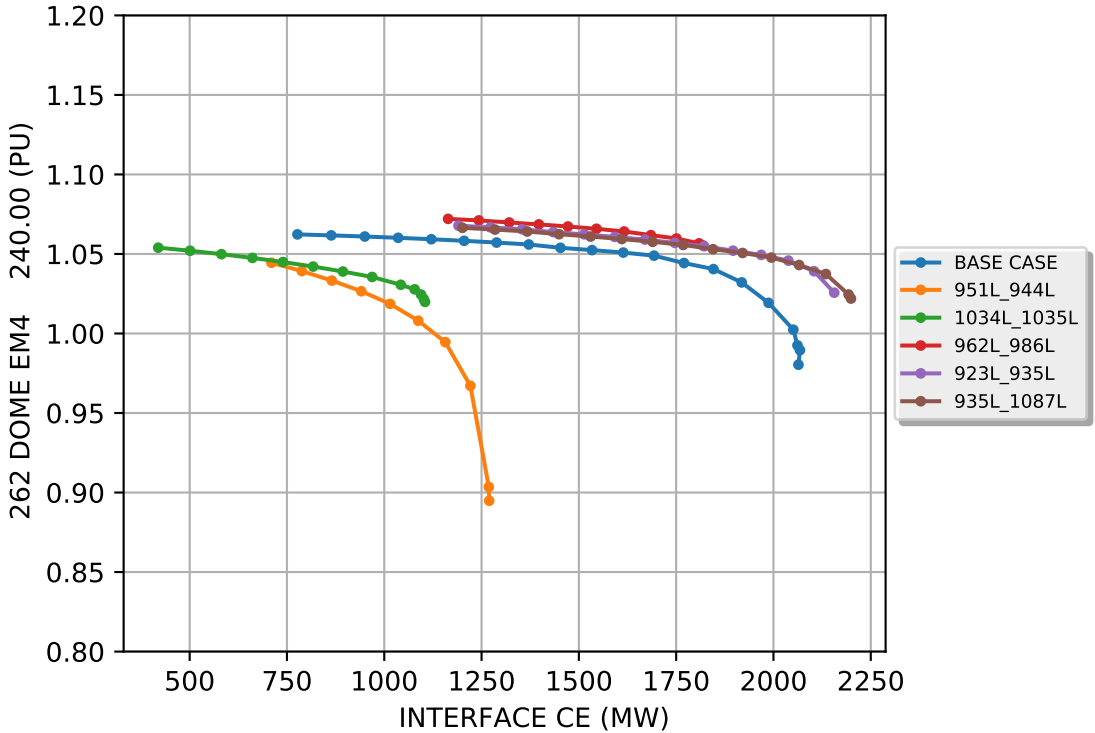


Figure: E-6-37

Case: M1, Option: BOTH2

Min Voltage: 0.94 PU, Min Margin: 56.3%

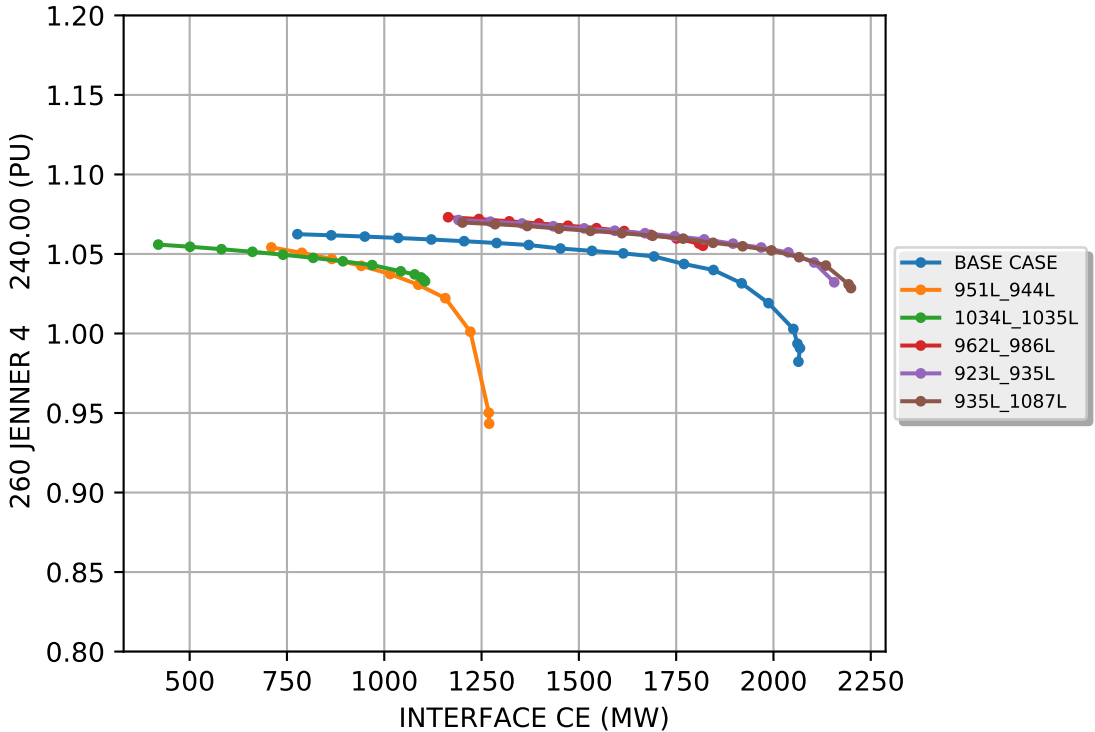


Figure: E-6-38

Case: M1, Option: BOTH2

Min Voltage: 0.96 PU, Min Margin: 56.3%

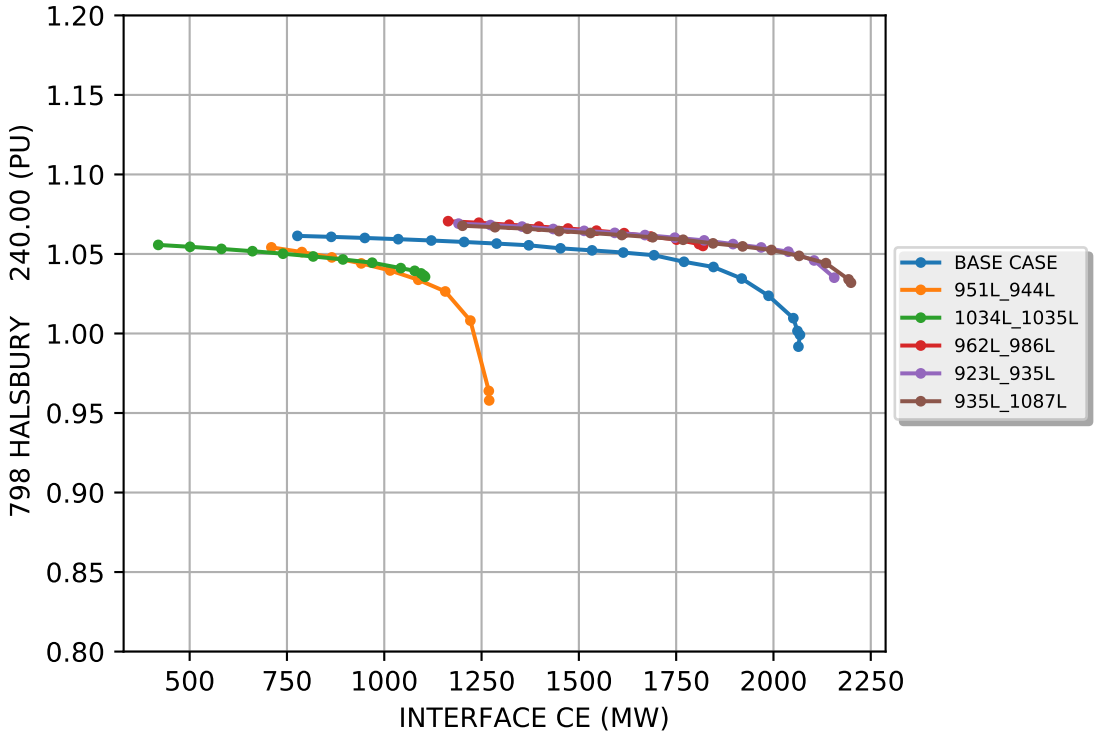


Figure: E-6-39

Case: M1, Option: BOTH2

Min Voltage: 0.93 PU, Min Margin: 56.3%

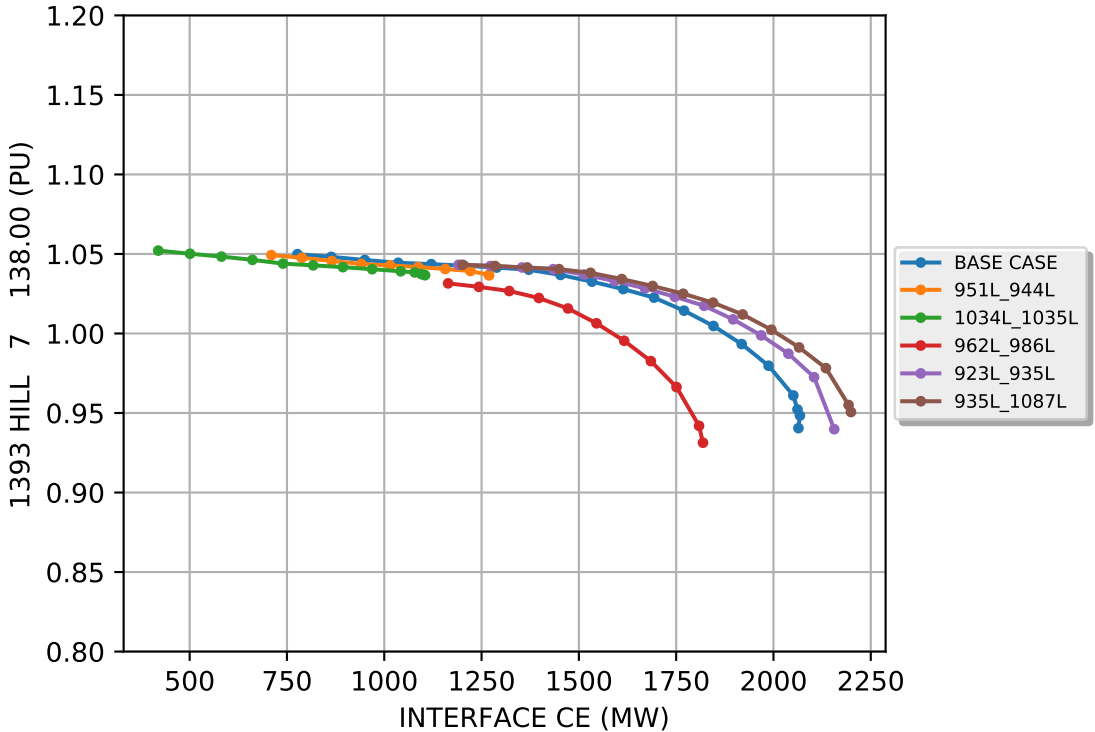


Figure: E-6-40

Case: H3, Option: BOTHC2

Min Voltage: 0.86 PU, Min Margin: 39.4%

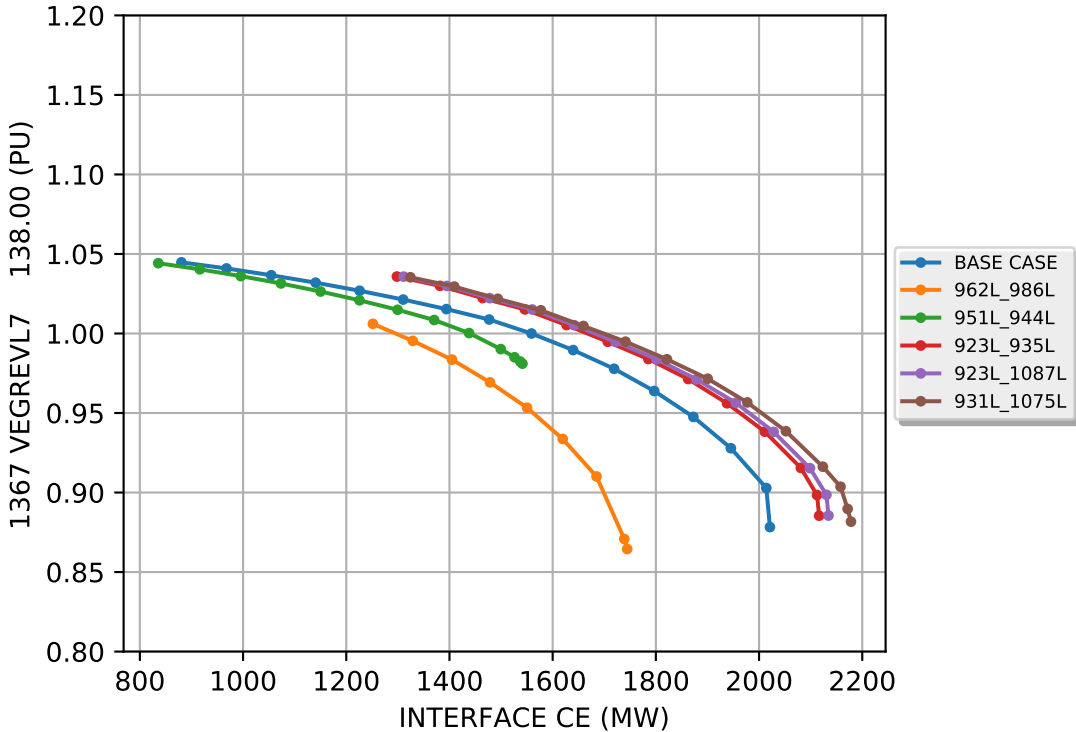


Figure: E-6-41

Case: H3, Option: BOTHC2

Min Voltage: 0.91 PU, Min Margin: 39.4%

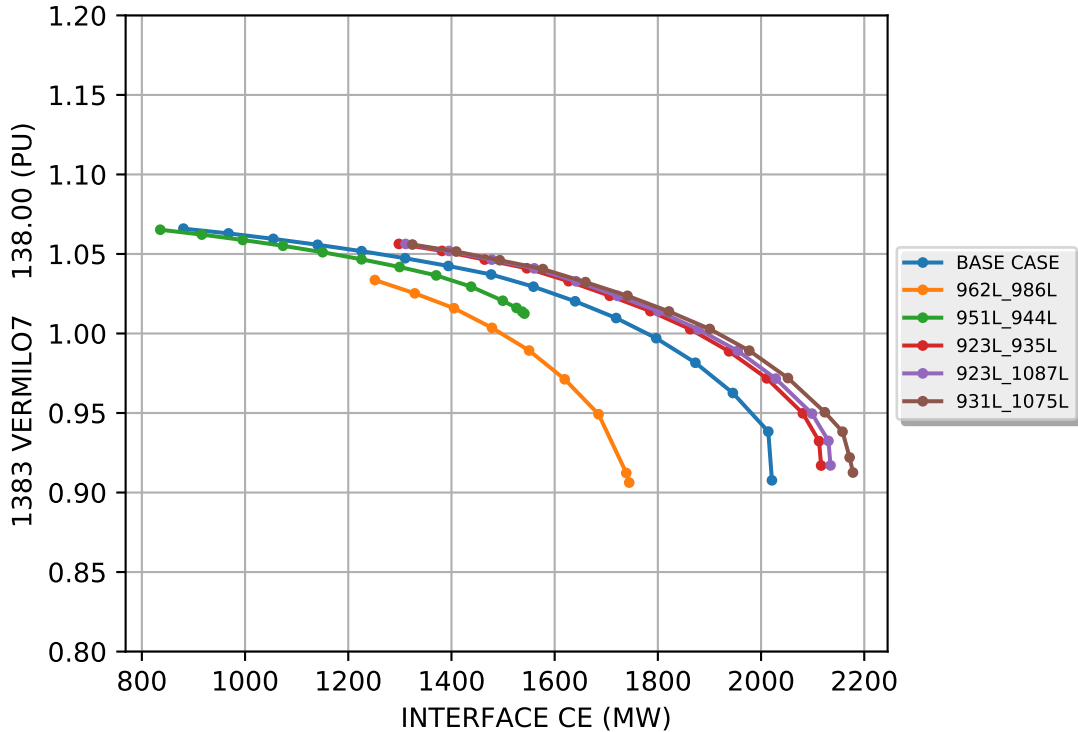


Figure: E-6-42

Case: H3, Option: BOTHC2

Min Voltage: 0.90 PU, Min Margin: 39.4%

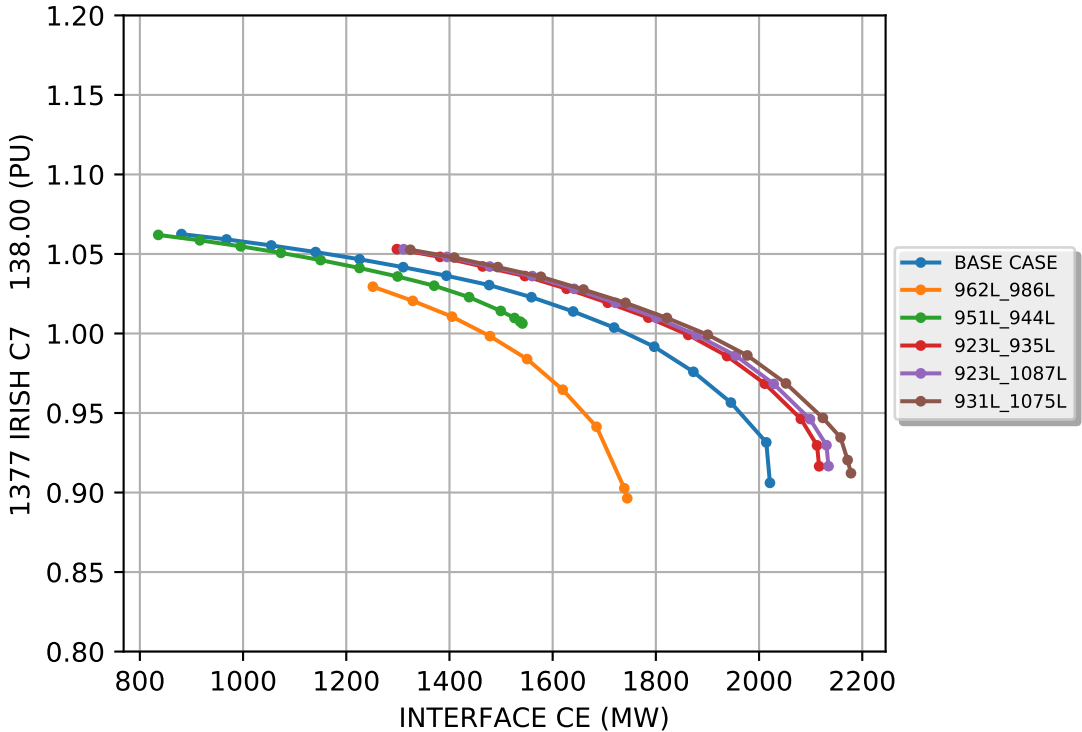


Figure: E-6-43

Case: H3, Option: BOTHC2

Min Voltage: 0.87 PU, Min Margin: 39.4%

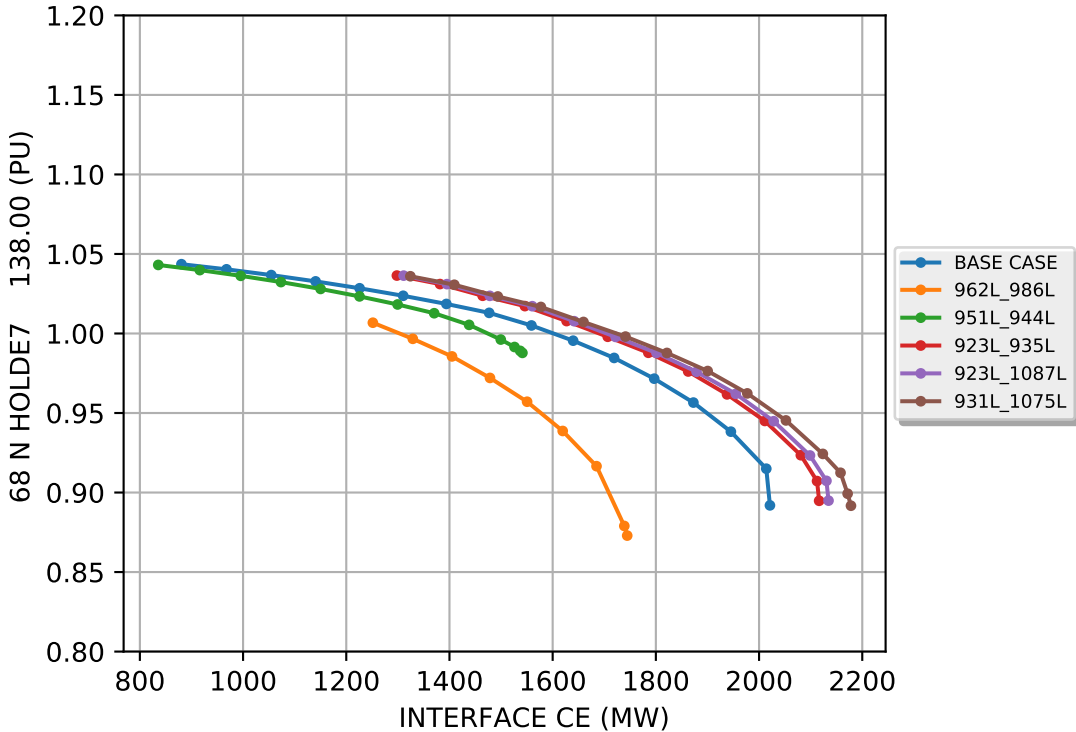


Figure: E-6-44

Case: H3, Option: BOTHC2

Min Voltage: 0.92 PU, Min Margin: 39.4%

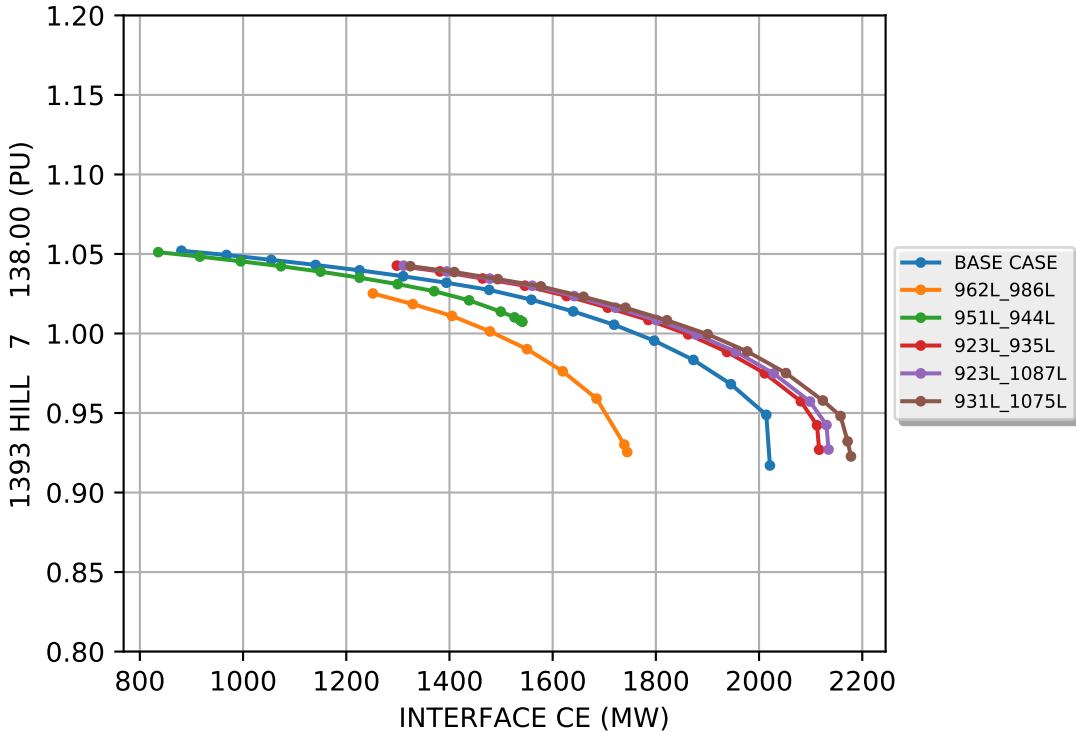


Figure: E-6-45

Case: H3, Option: BOTHC2

Min Voltage: 0.91 PU, Min Margin: 39.4%

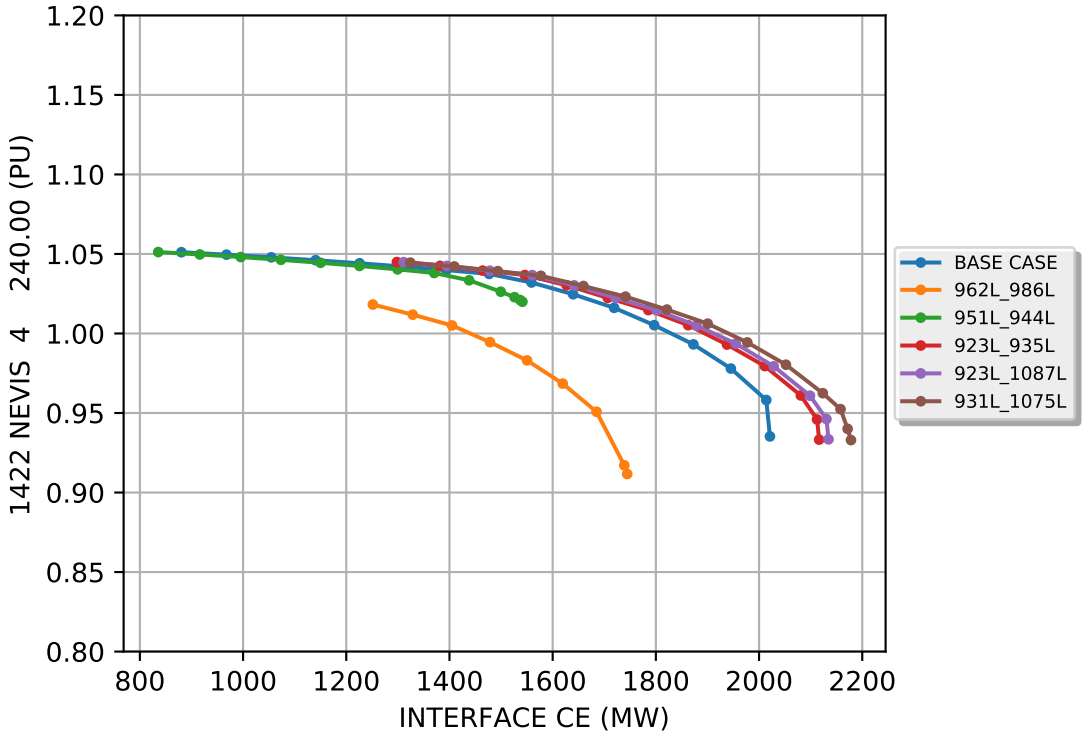


Figure: E-6-46

Case: H3, Option: BOTHC2

Min Voltage: 0.90 PU, Min Margin: 39.4%

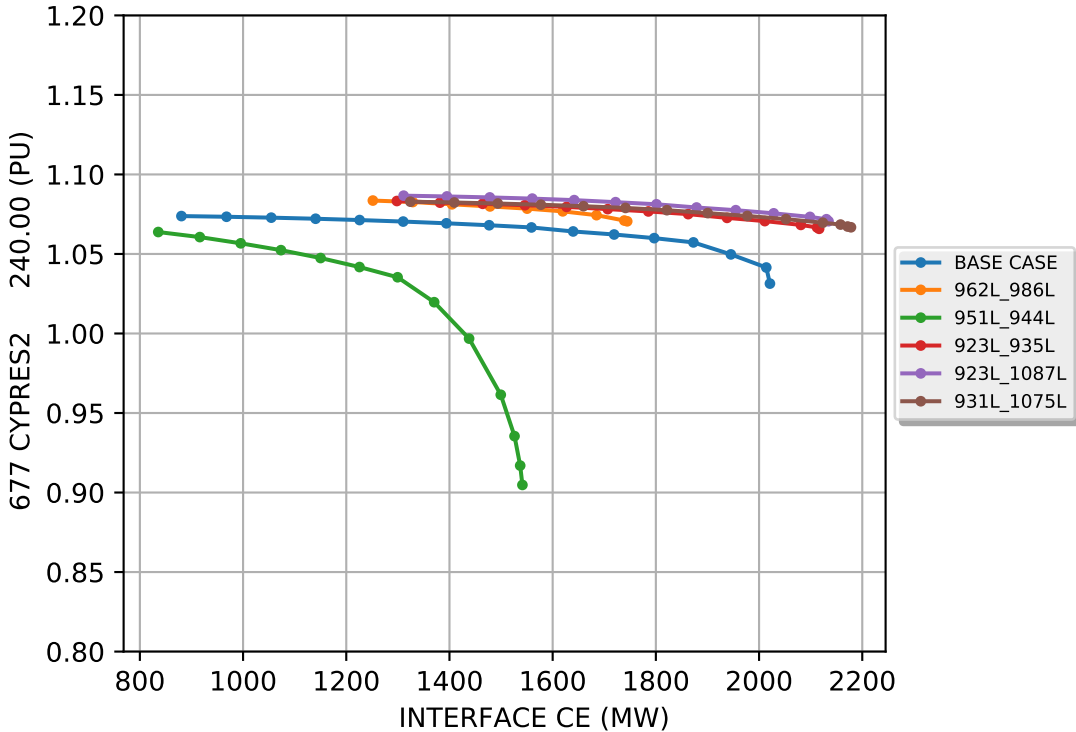


Figure: E-6-47

Case: H3, Option: BOTHC2

Min Voltage: 0.91 PU, Min Margin: 39.4%

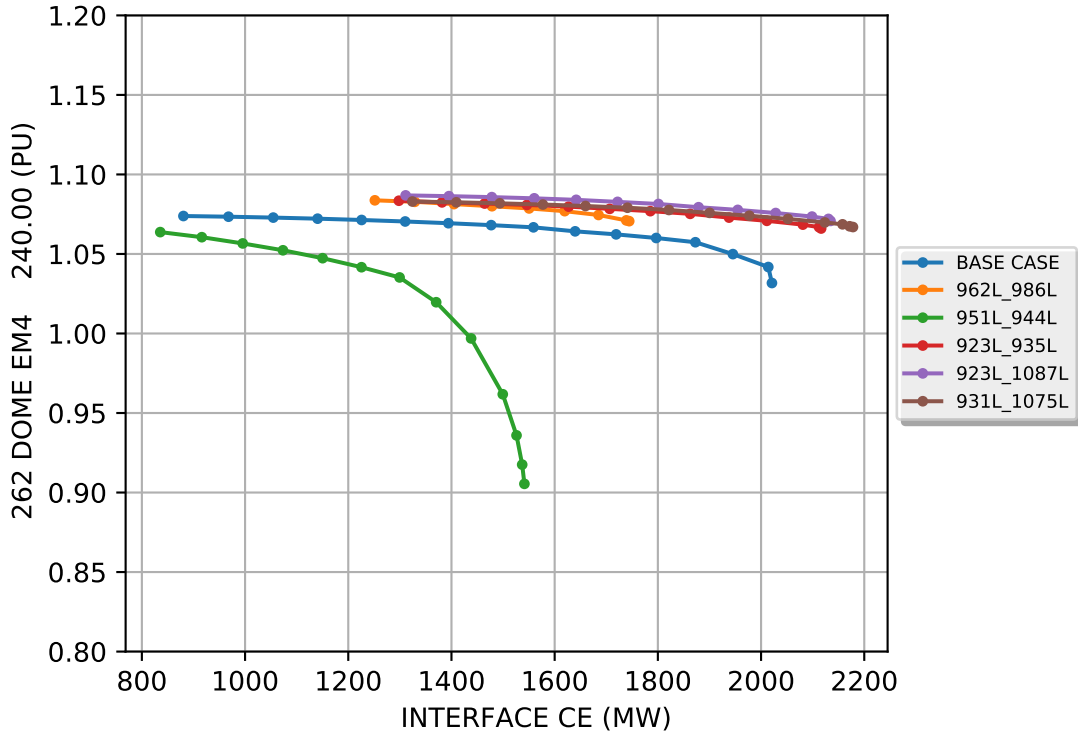


Figure: E-6-48

Case: H3, Option: BOTHC2

Min Voltage: 0.94 PU, Min Margin: 39.4%

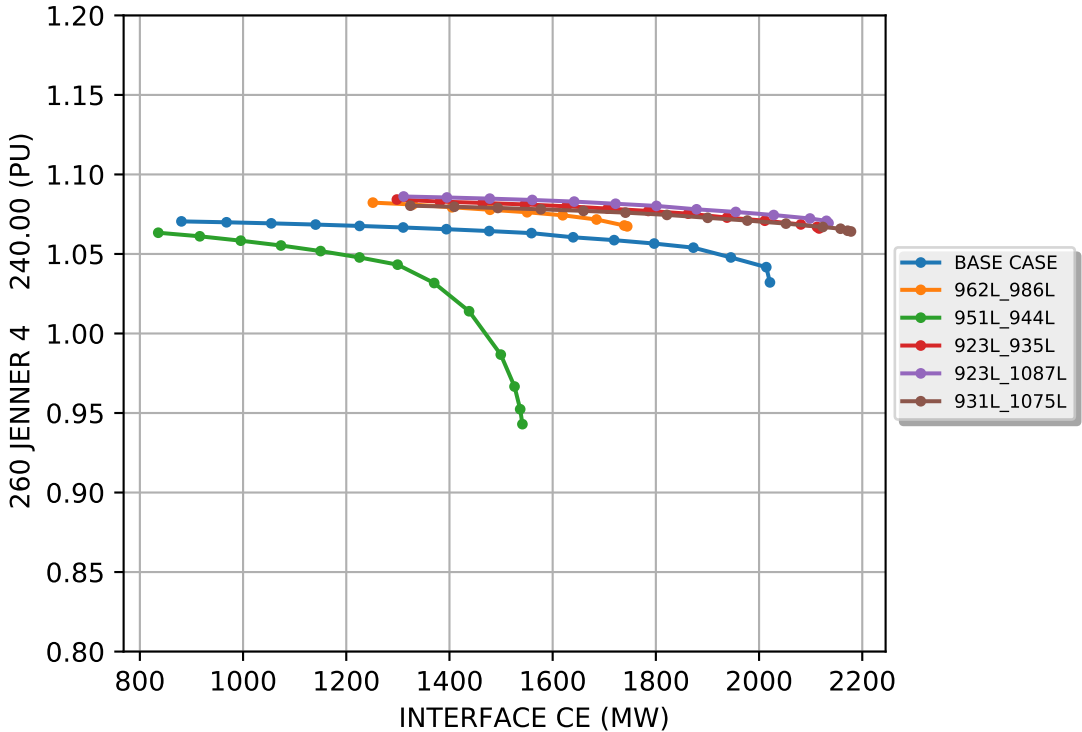


Figure: E-6-49

Case: H3, Option: BOTHC2

Min Voltage: 0.96 PU, Min Margin: 39.4%

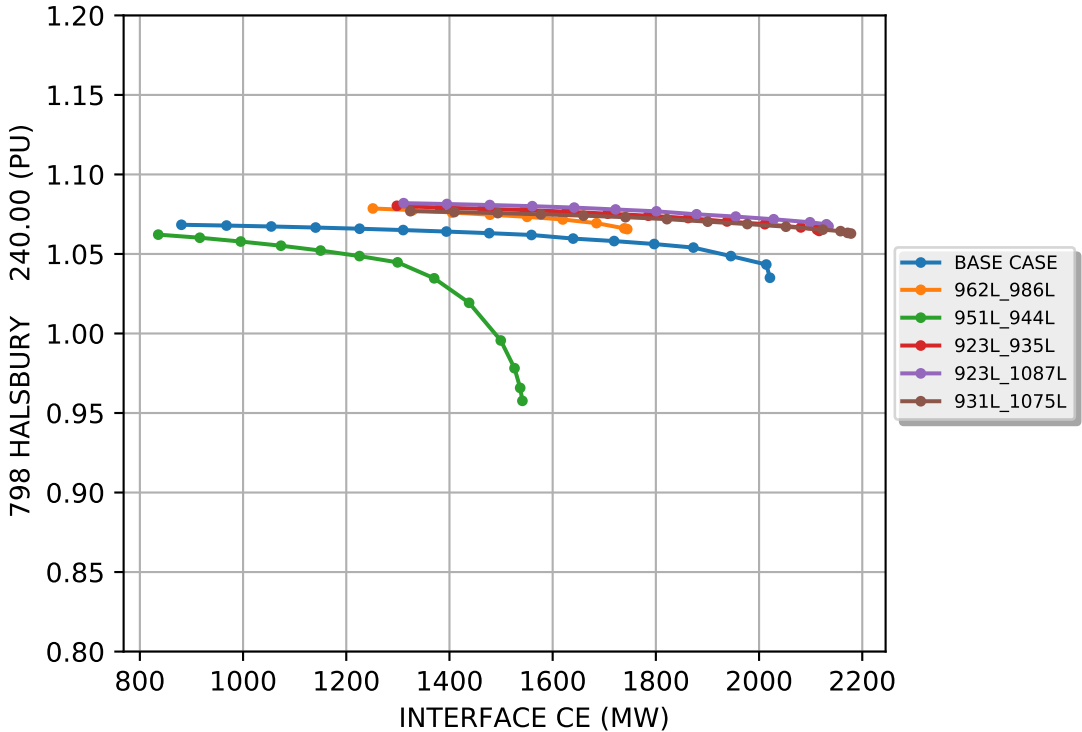


Figure: E-6-50

Case: M5, Option: BOTH2

Min Voltage: 0.80 PU, Min Margin: 22.2%

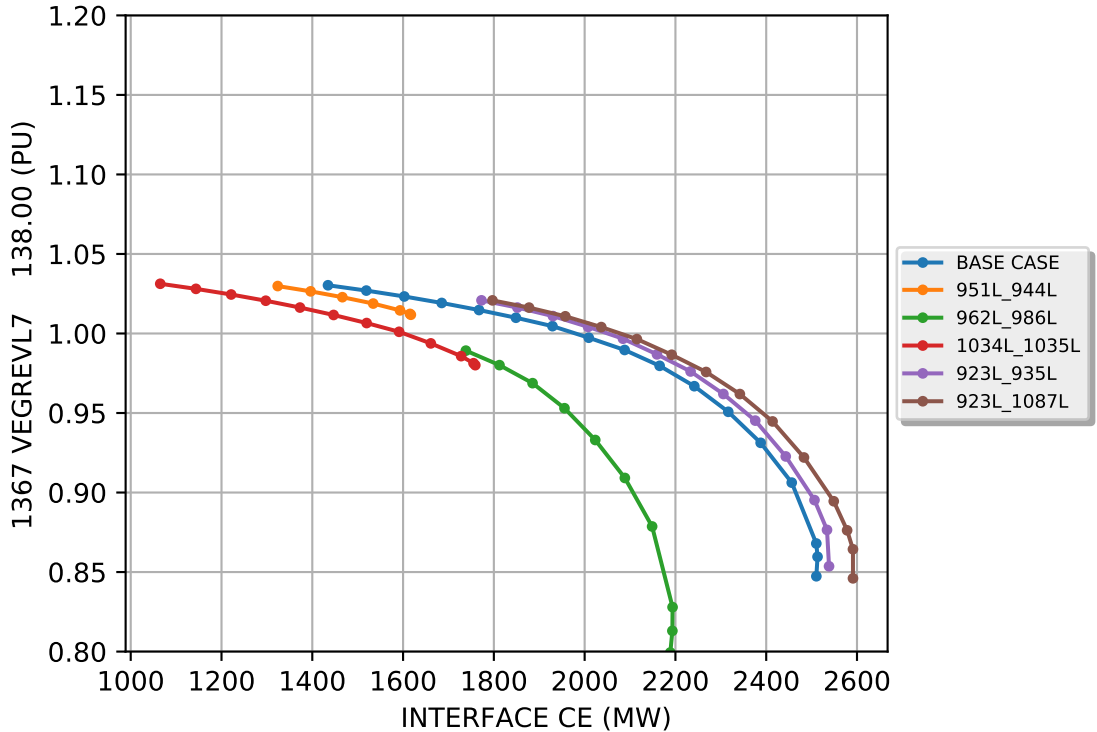


Figure: E-6-51

Case: M5, Option: BOTH2

Min Voltage: 0.83 PU, Min Margin: 22.2%

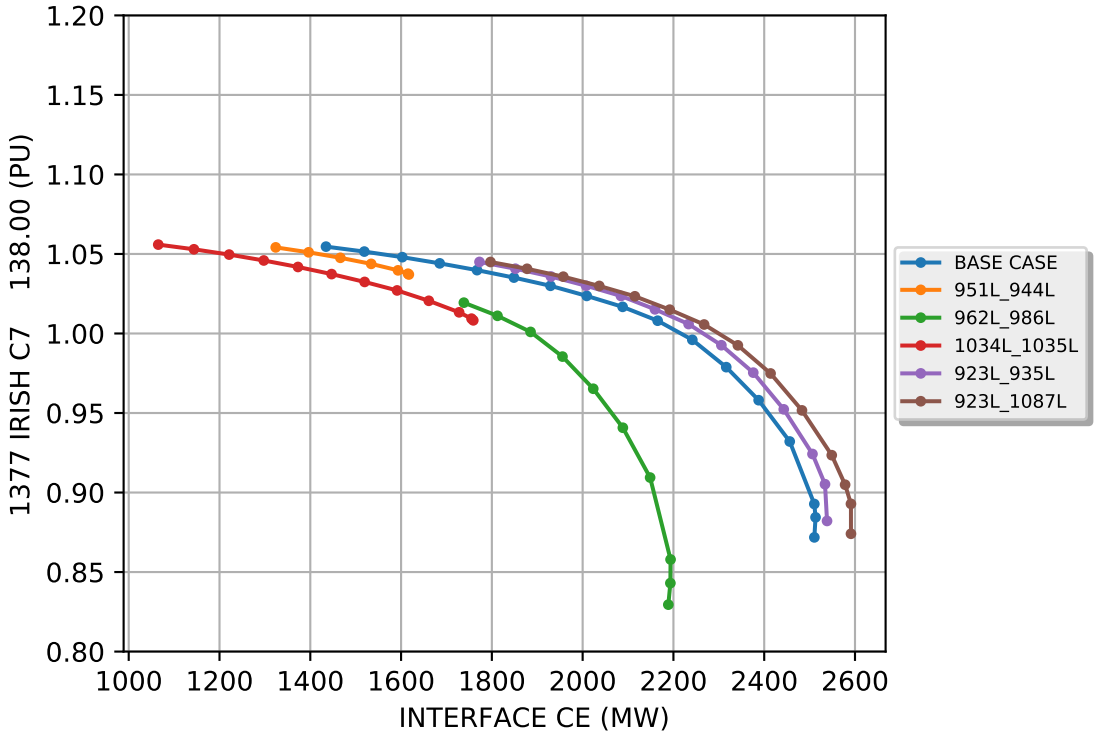


Figure: E-6-52

Case: M5, Option: BOTH2

Min Voltage: 0.81 PU, Min Margin: 22.2%

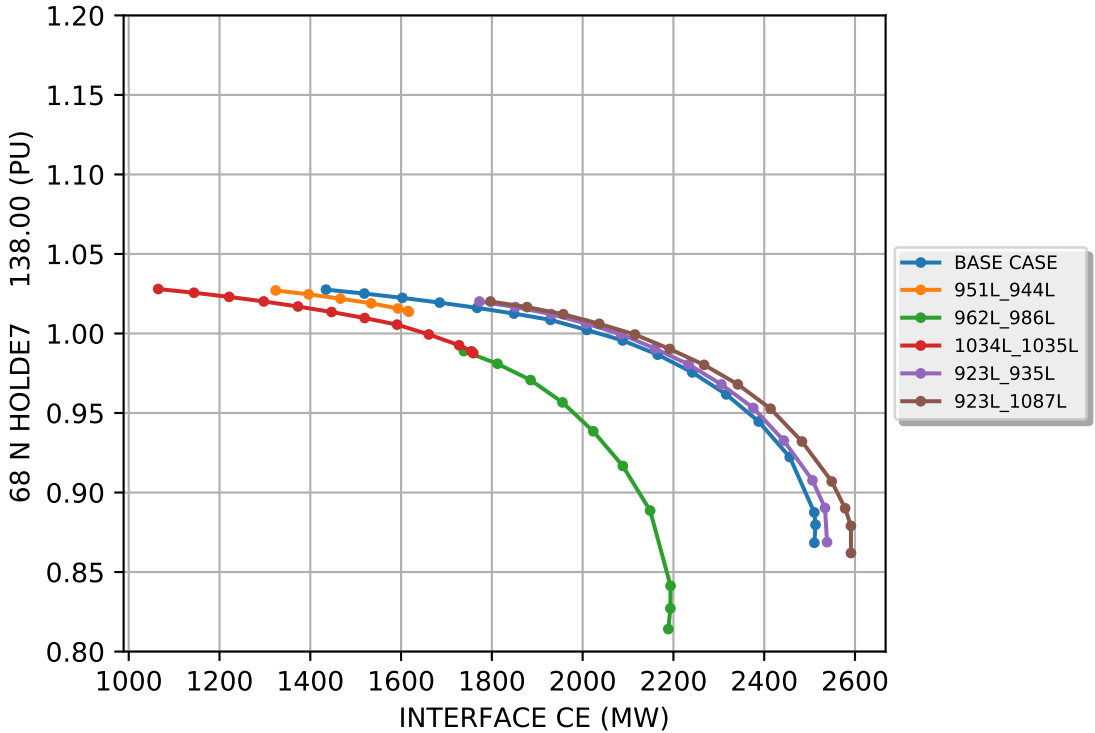


Figure: E-6-53

Case: M5, Option: BOTH2

Min Voltage: 0.88 PU, Min Margin: 22.2%

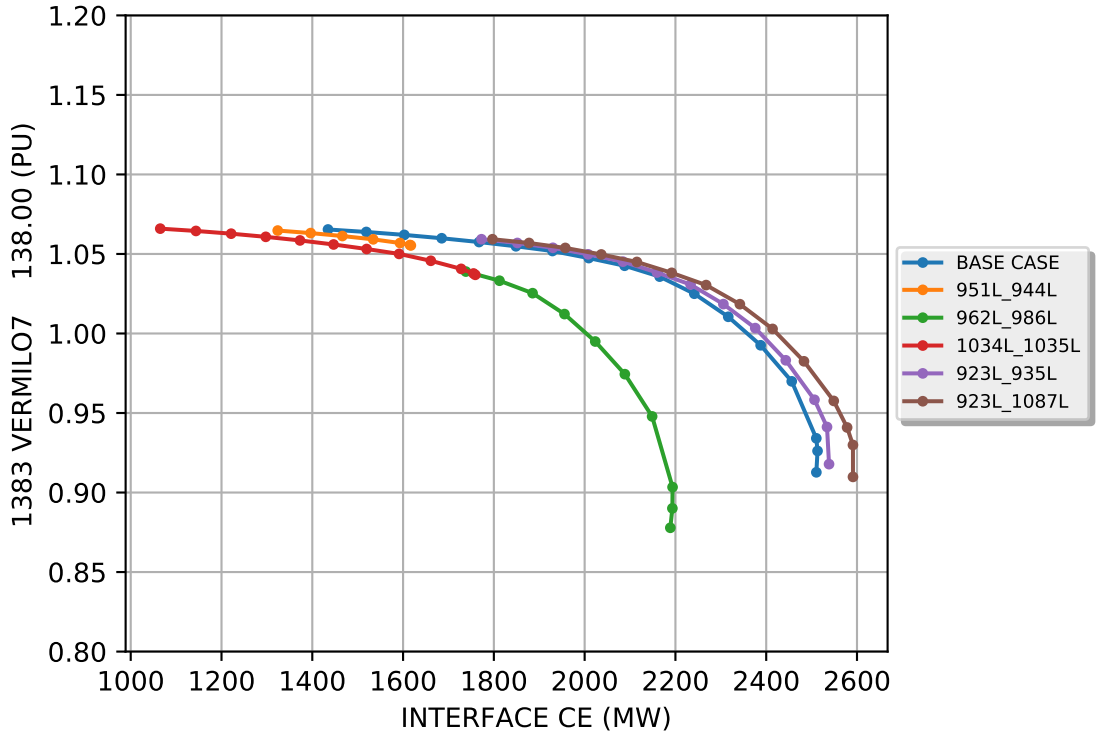


Figure: E-6-54

Case: M5, Option: BOTH2

Min Voltage: 0.91 PU, Min Margin: 22.2%

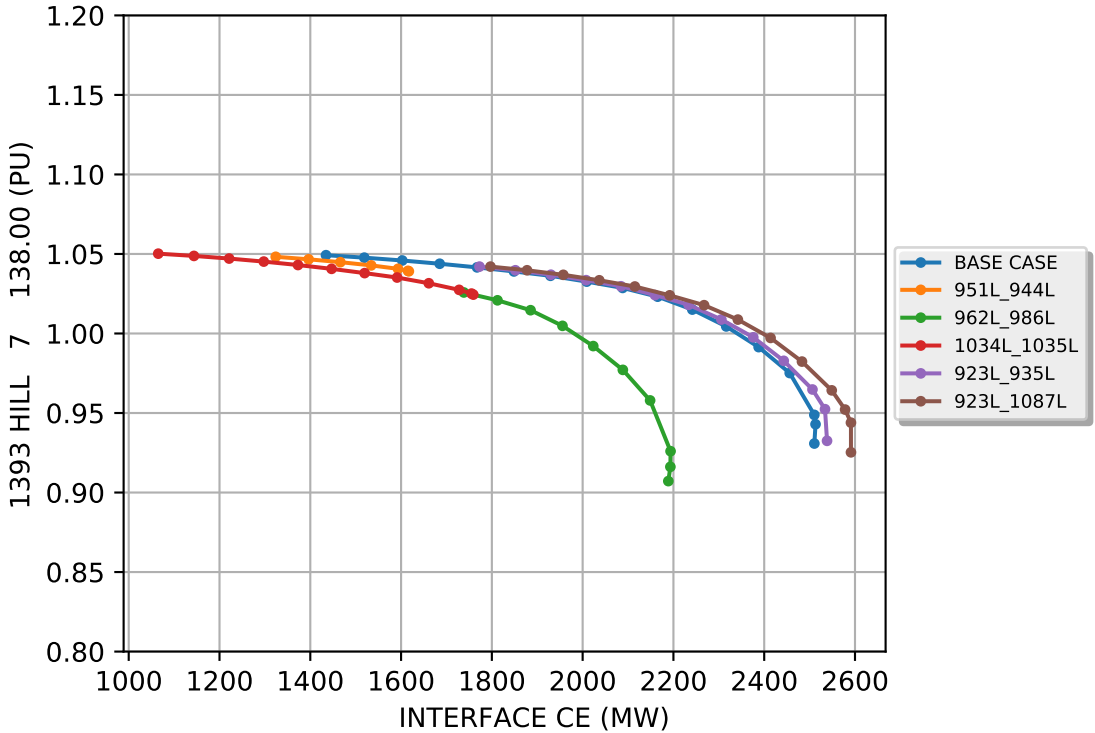


Figure: E-6-55

Case: M5, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 22.2%

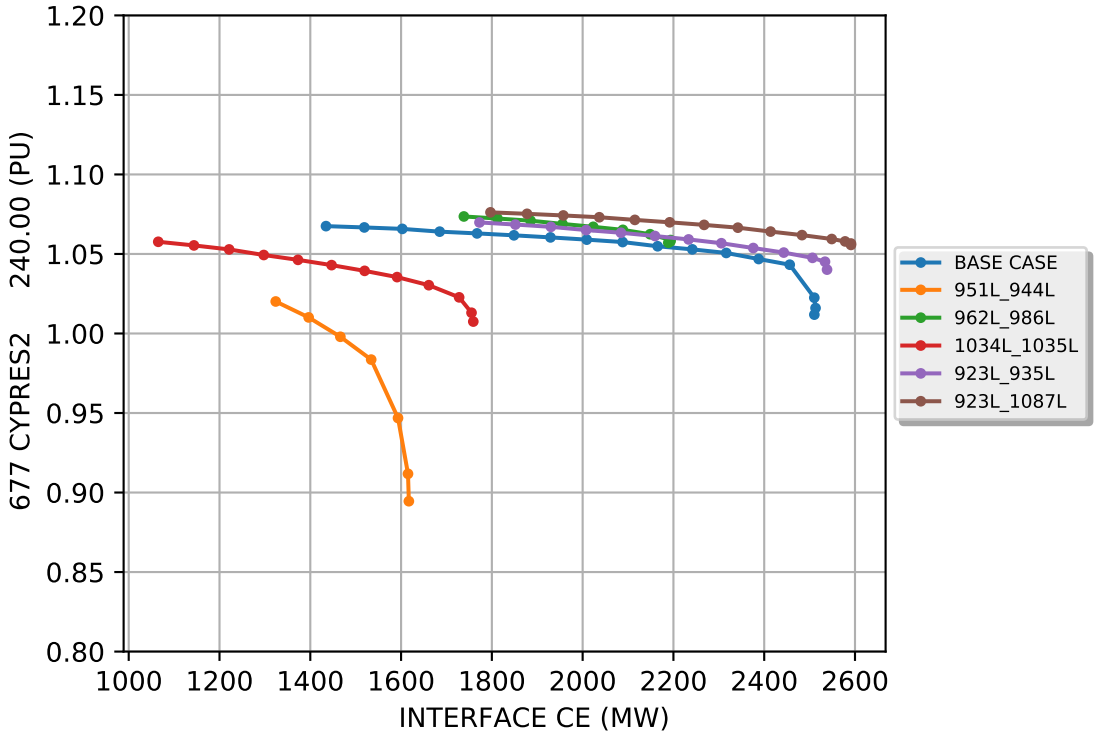


Figure: E-6-56

Case: M5, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 22.2%

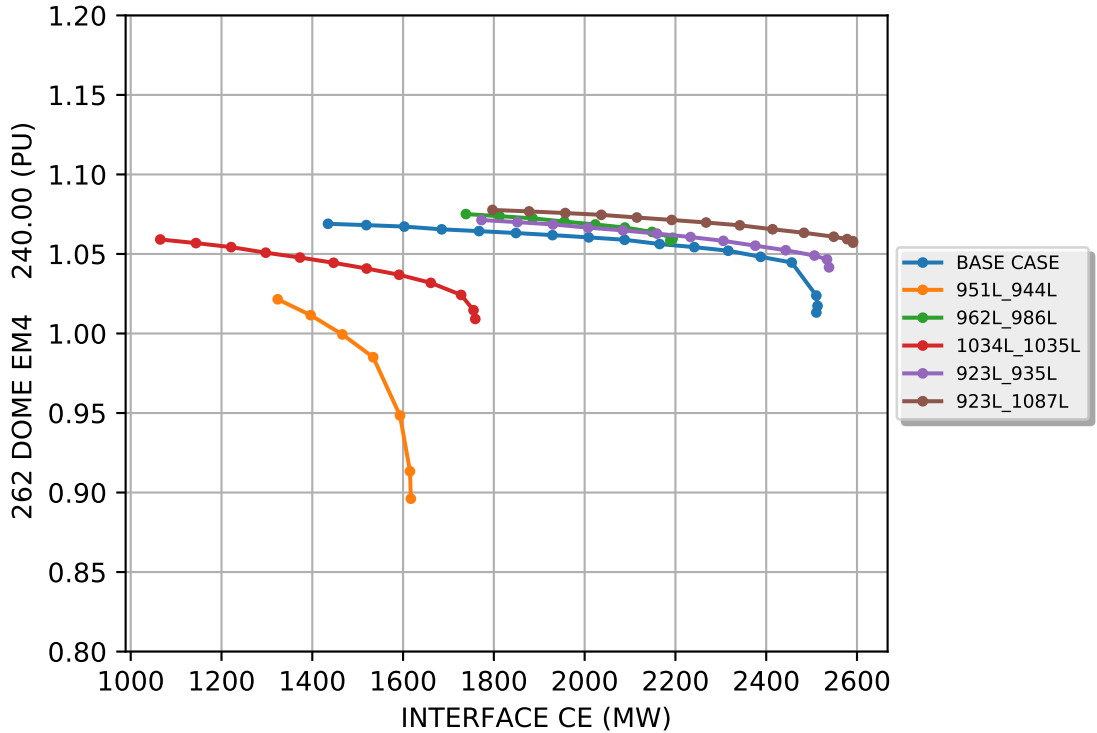


Figure: E-6-57

Case: M5, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 22.2%

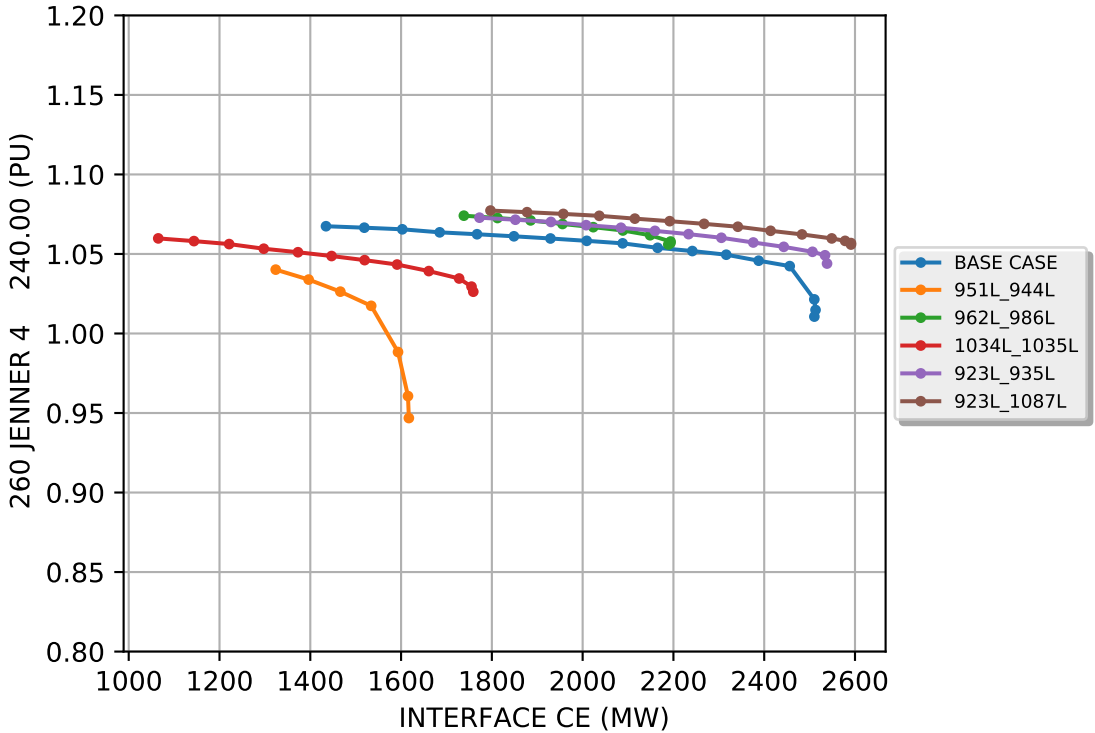


Figure: E-6-58

Case: M5, Option: BOTH2

Min Voltage: 0.96 PU, Min Margin: 22.2%

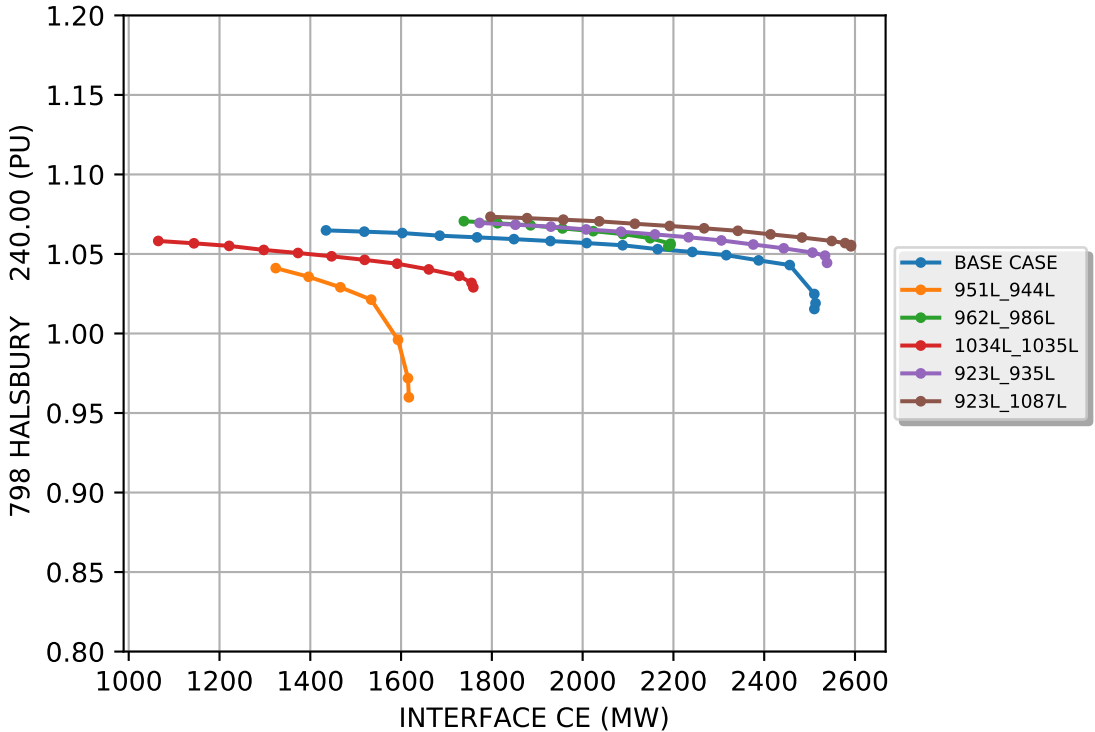


Figure: E-6-59

Case: M5, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 22.2%

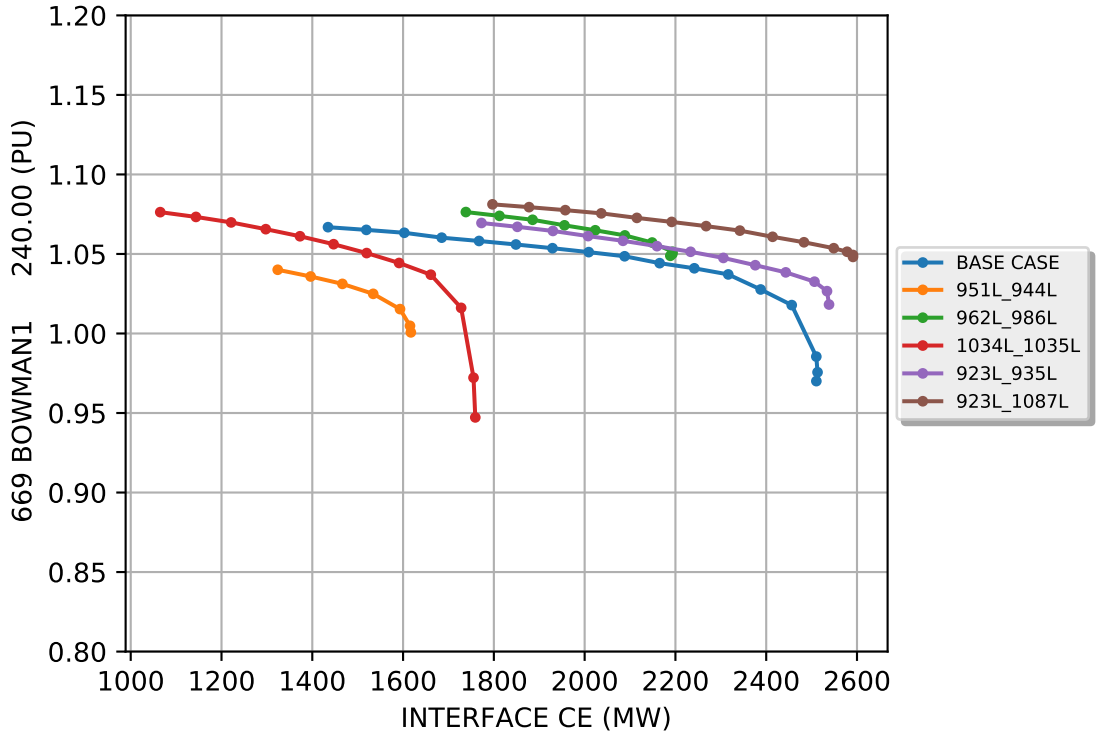


Figure: E-6-60

Case: M5, Option: BOTH2

Min Voltage: 0.88 PU, Min Margin: 22.2%

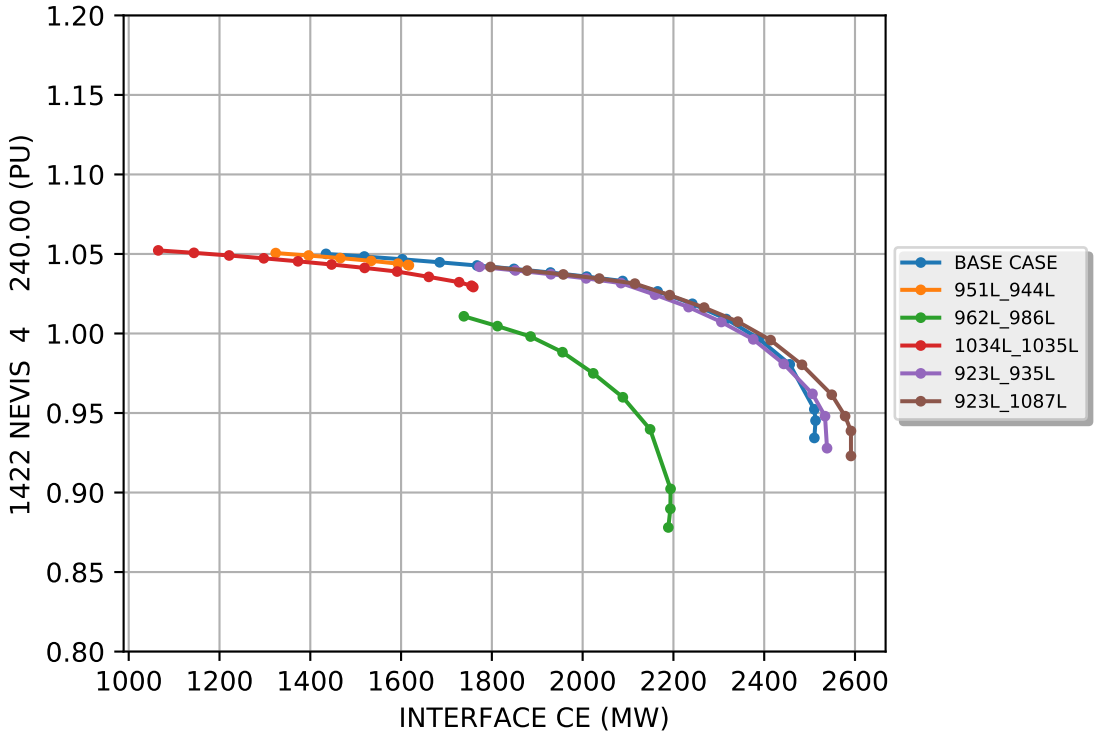


Figure: E-6-61

Case: M2, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 44.8%

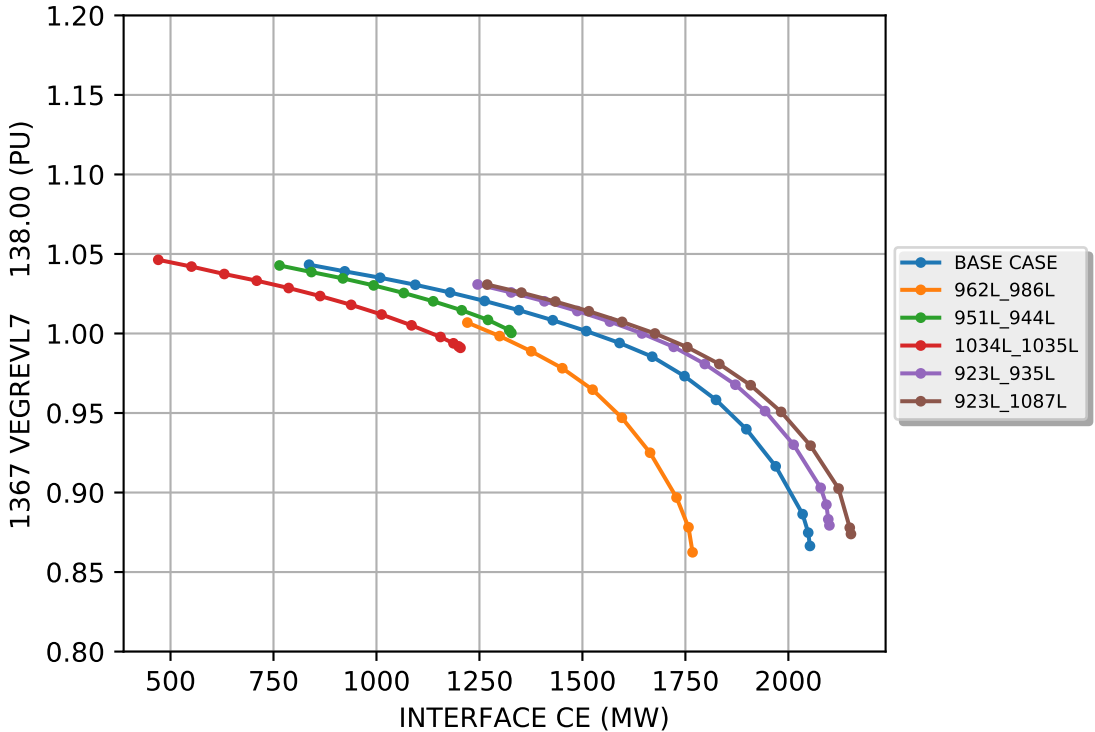


Figure: E-6-62

Case: M2, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 44.8%

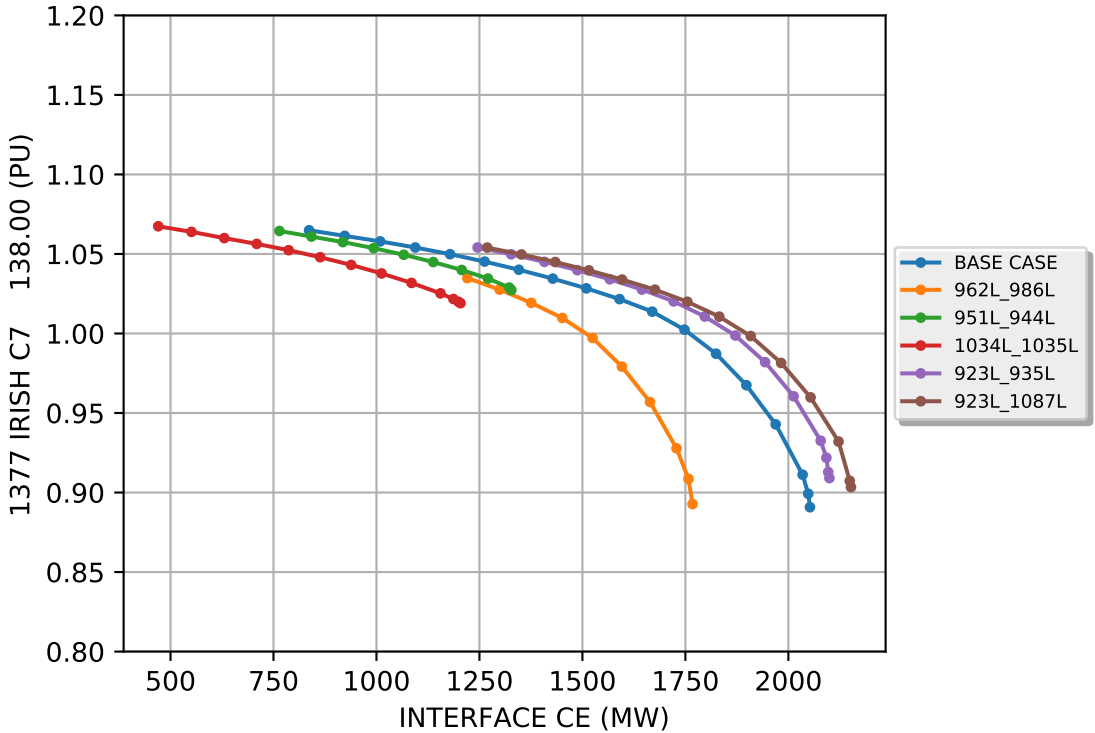


Figure: E-6-63

Case: M2, Option: BOTH2

Min Voltage: 0.87 PU, Min Margin: 44.8%

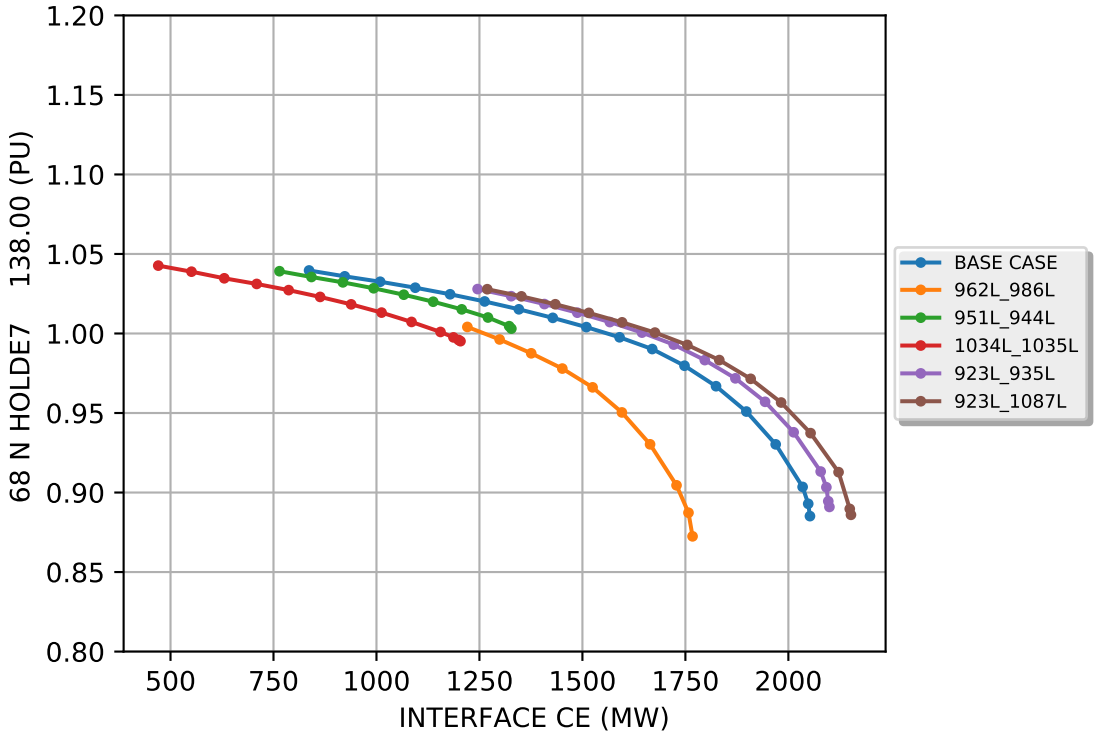


Figure: E-6-64

Case: M2, Option: BOTH2

Min Voltage: 0.93 PU, Min Margin: 44.8%

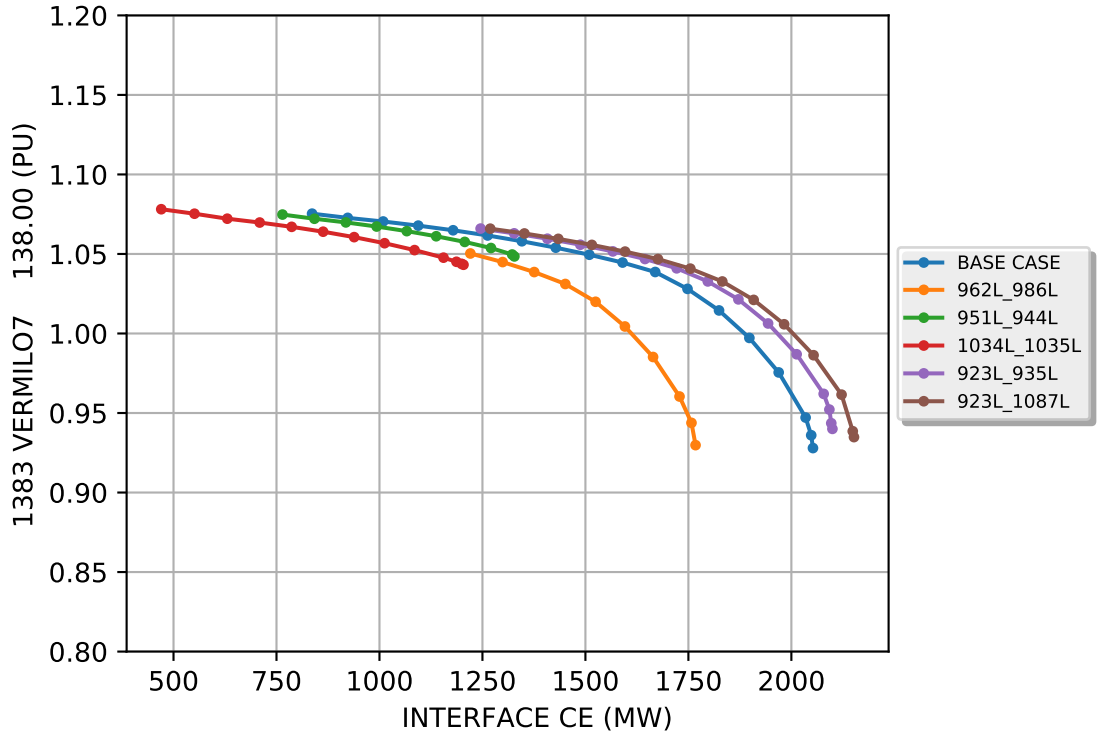


Figure: E-6-65

Case: M2, Option: BOTH2

Min Voltage: 0.94 PU, Min Margin: 44.8%

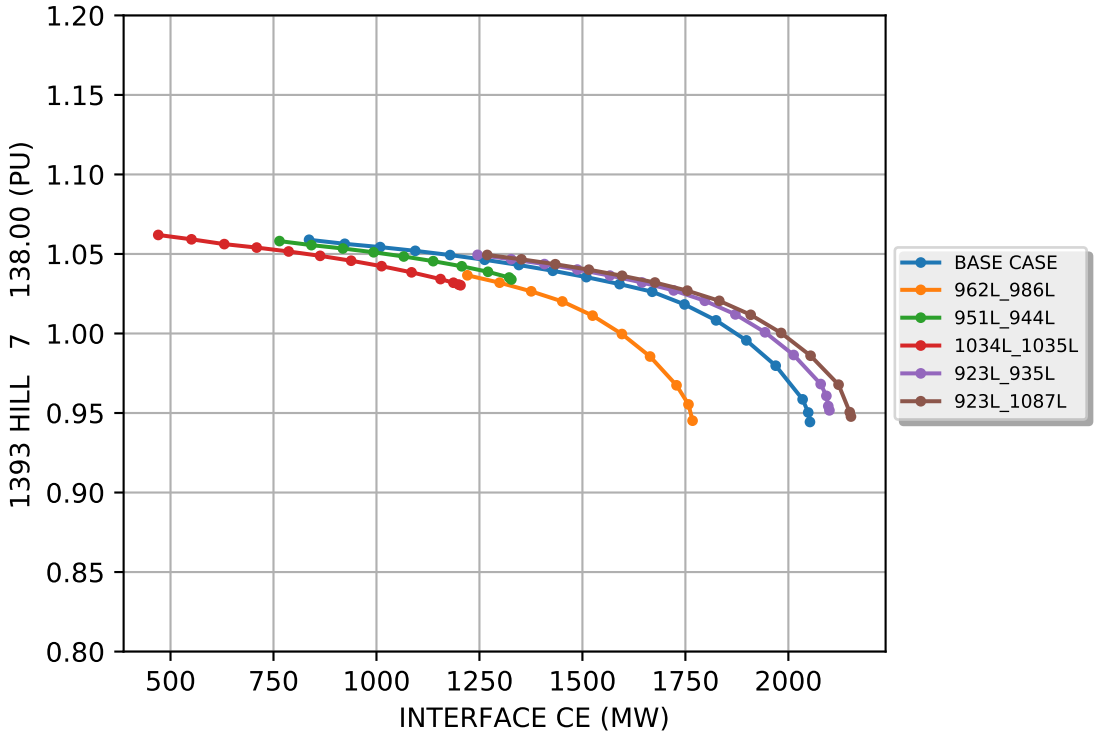


Figure: E-6-66

Case: M2, Option: BOTH2

Min Voltage: 0.93 PU, Min Margin: 44.8%

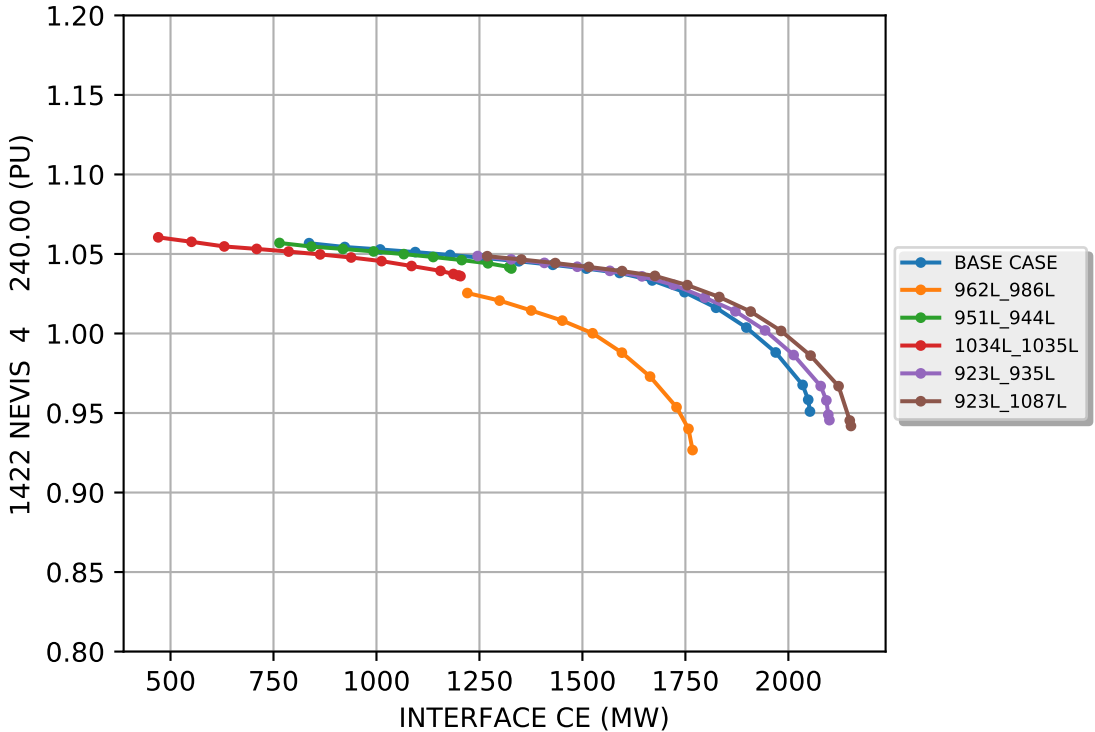


Figure: E-6-67

Case: M2, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 44.8%

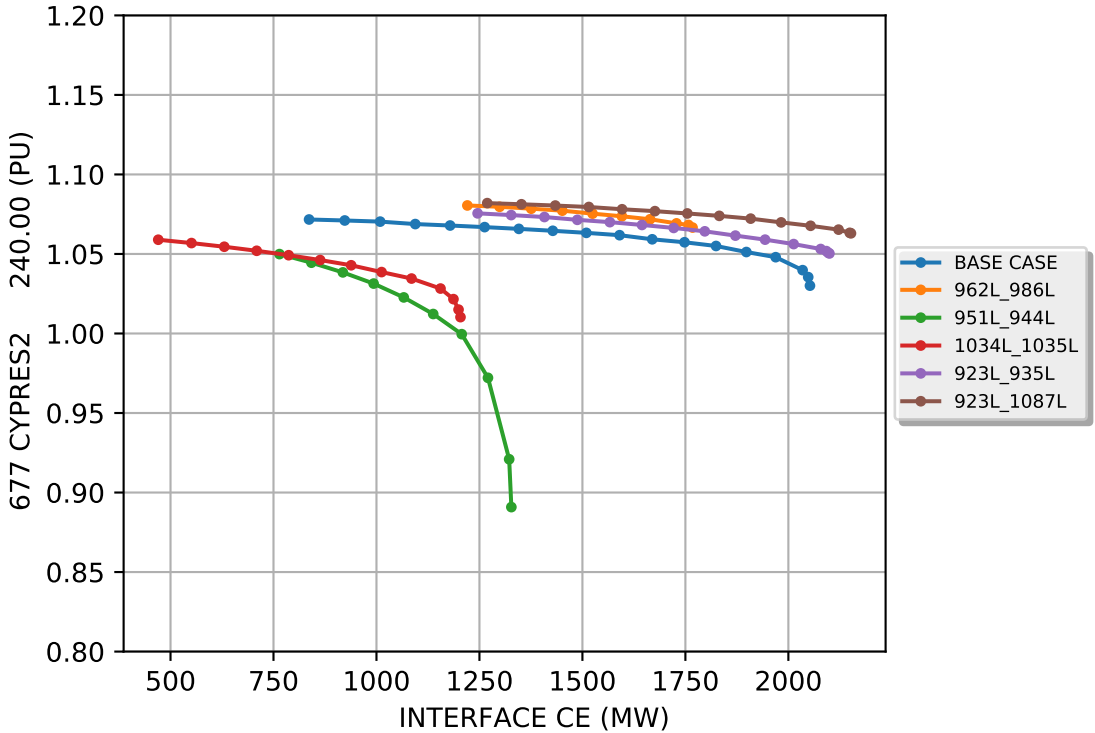


Figure: E-6-68

Case: M2, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 44.8%

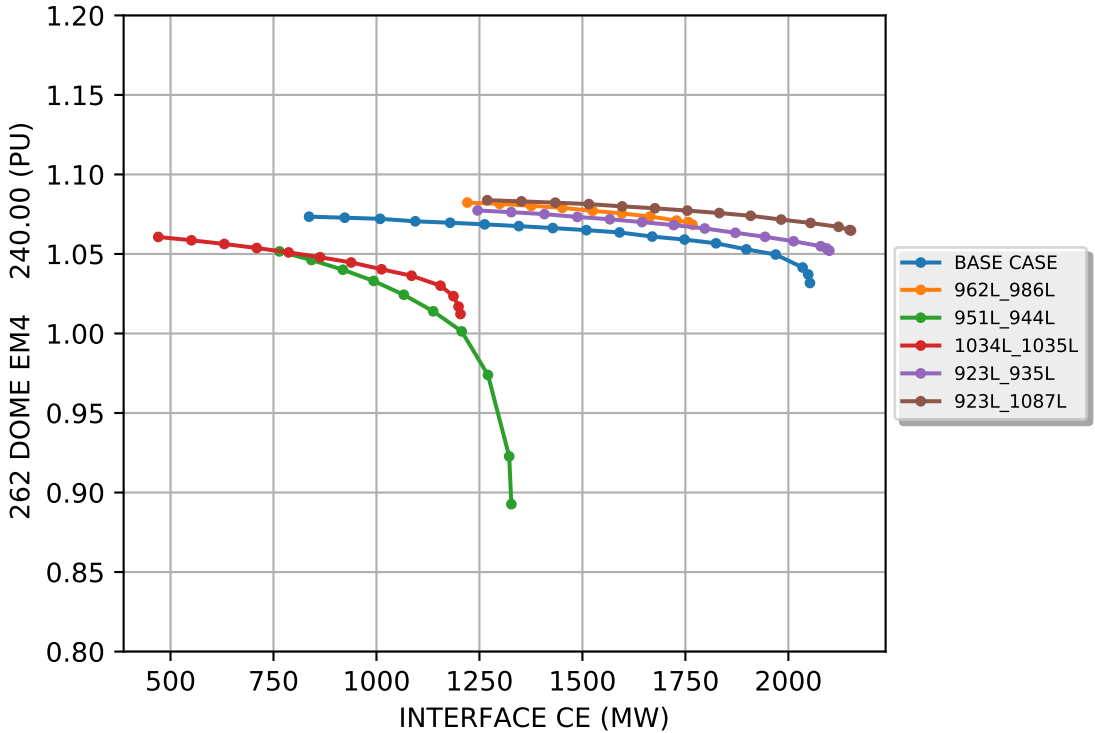


Figure: E-6-69

Case: M2, Option: BOTH2

Min Voltage: 0.94 PU, Min Margin: 44.8%

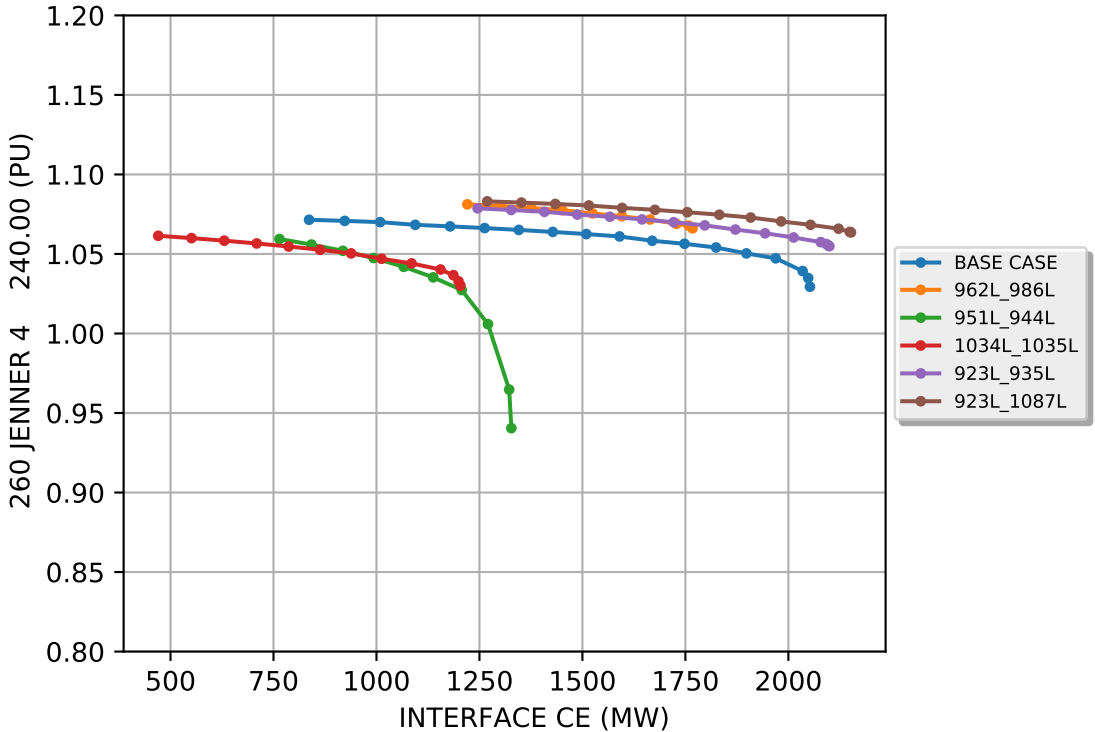


Figure: E-6-70

Case: M2, Option: BOTH2

Min Voltage: 0.96 PU, Min Margin: 44.8%

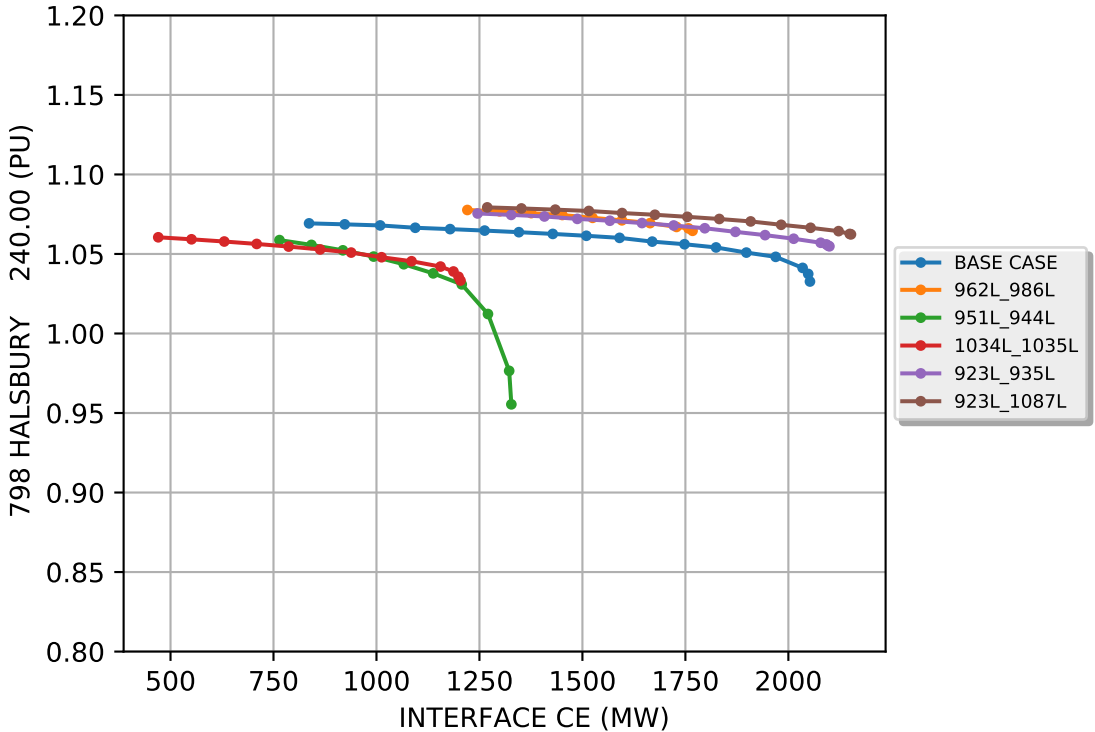


Figure: E-6-71

Case: M2, Option: BOTH2

Min Voltage: 0.96 PU, Min Margin: 44.8%

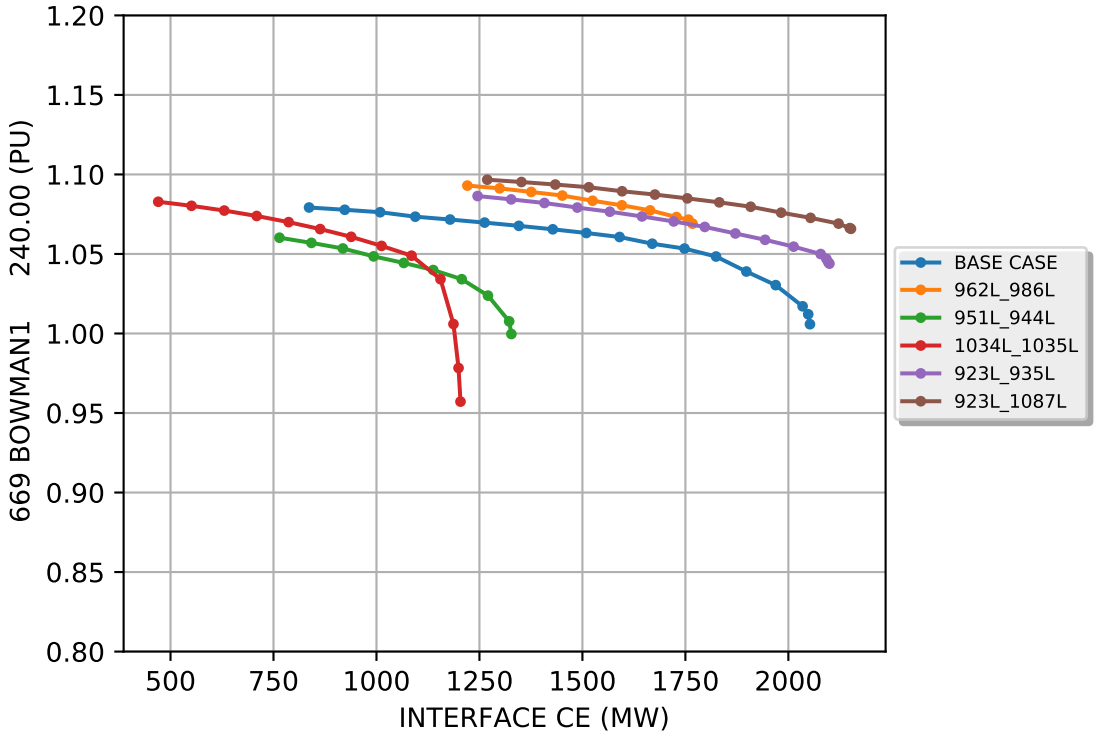


Figure: E-6-72

Case: M2, Option: BOTH2

Min Voltage: 0.94 PU, Min Margin: 44.8%

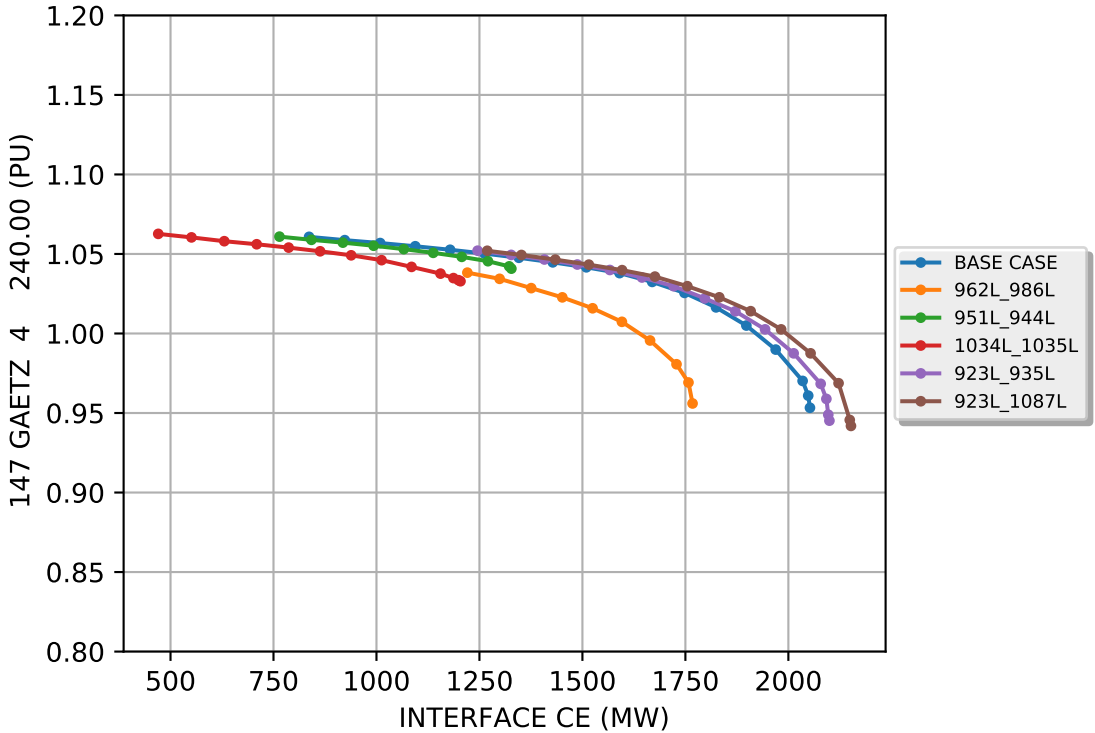


Figure: E-6-73

Case: M3, Option: BOTH2

Min Voltage: 0.93 PU, Min Margin: 85.3%

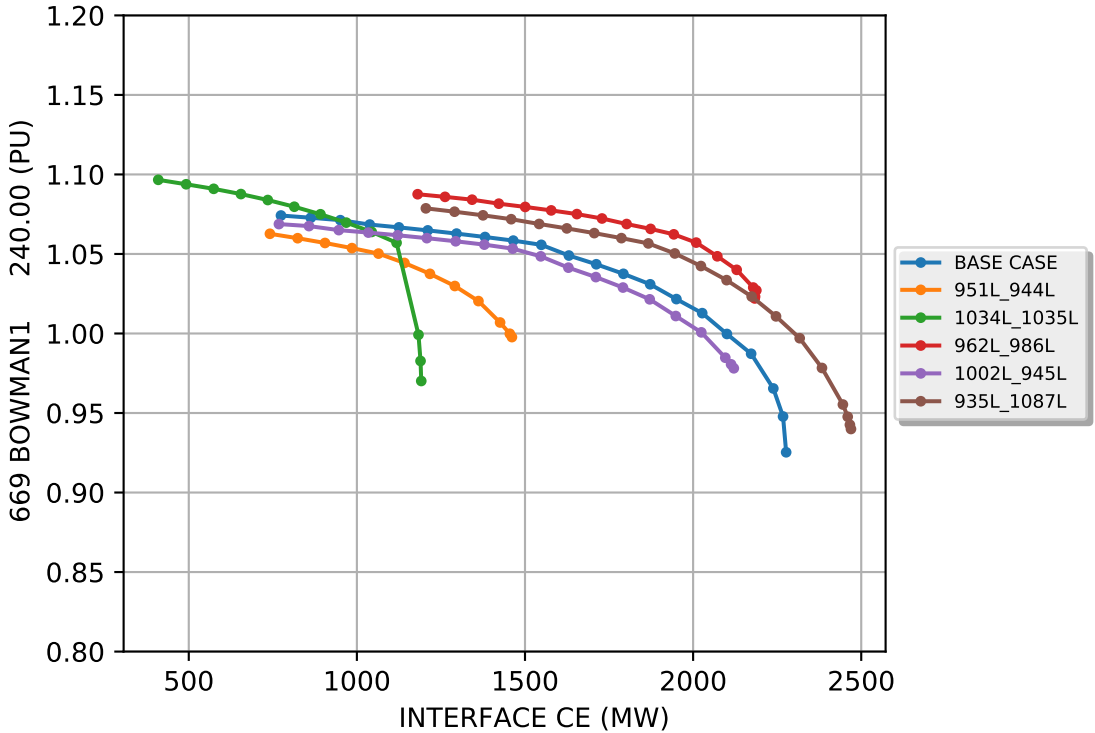


Figure: E-6-74

Case: M3, Option: BOTH2

Min Voltage: 0.80 PU, Min Margin: 85.3%

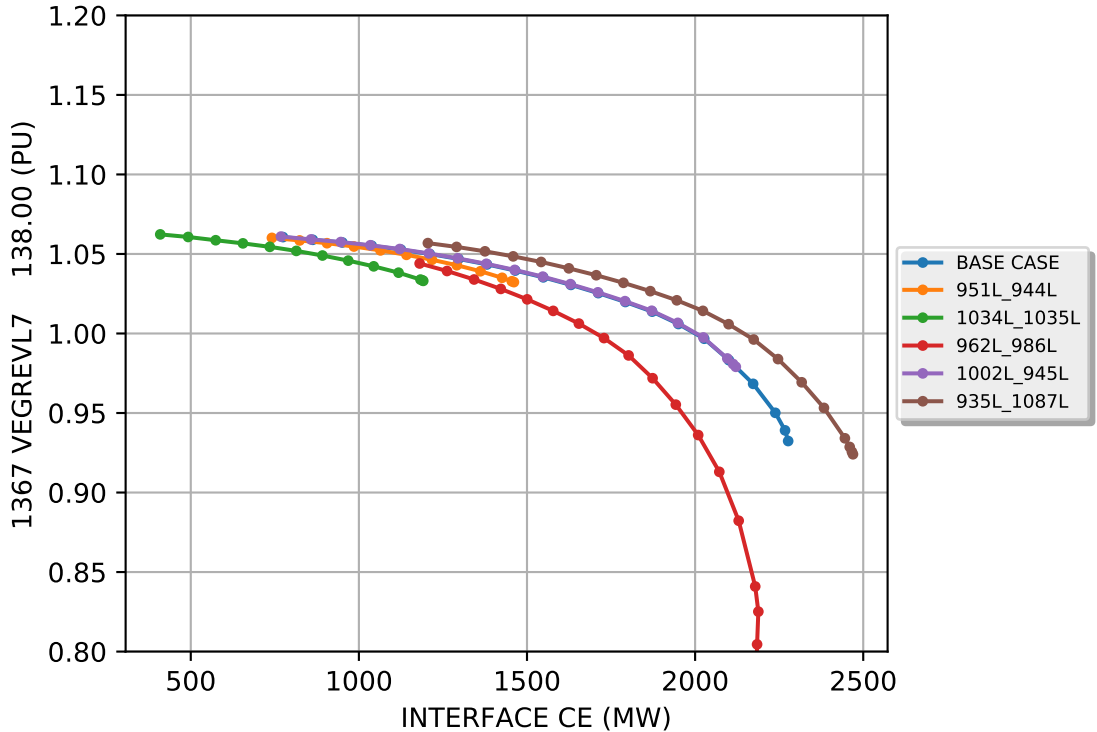


Figure: E-6-75

Case: M3, Option: BOTH2

Min Voltage: 0.82 PU, Min Margin: 85.3%

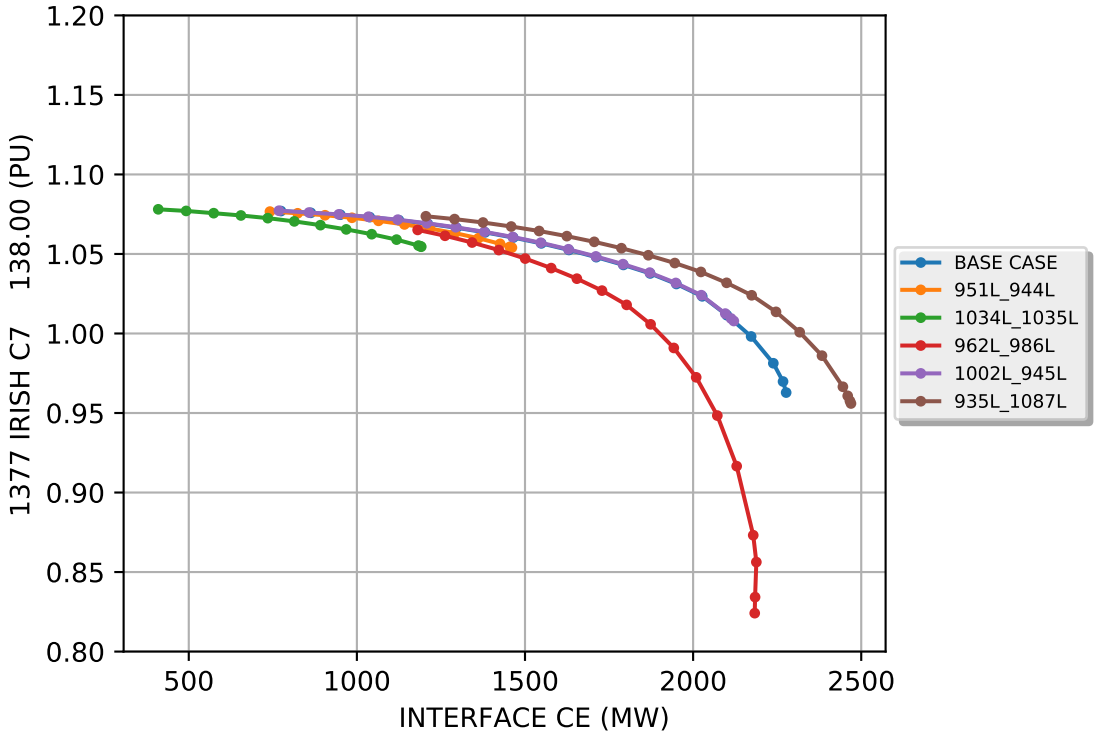


Figure: E-6-76

Case: M3, Option: BOTH2

Min Voltage: 0.81 PU, Min Margin: 85.3%

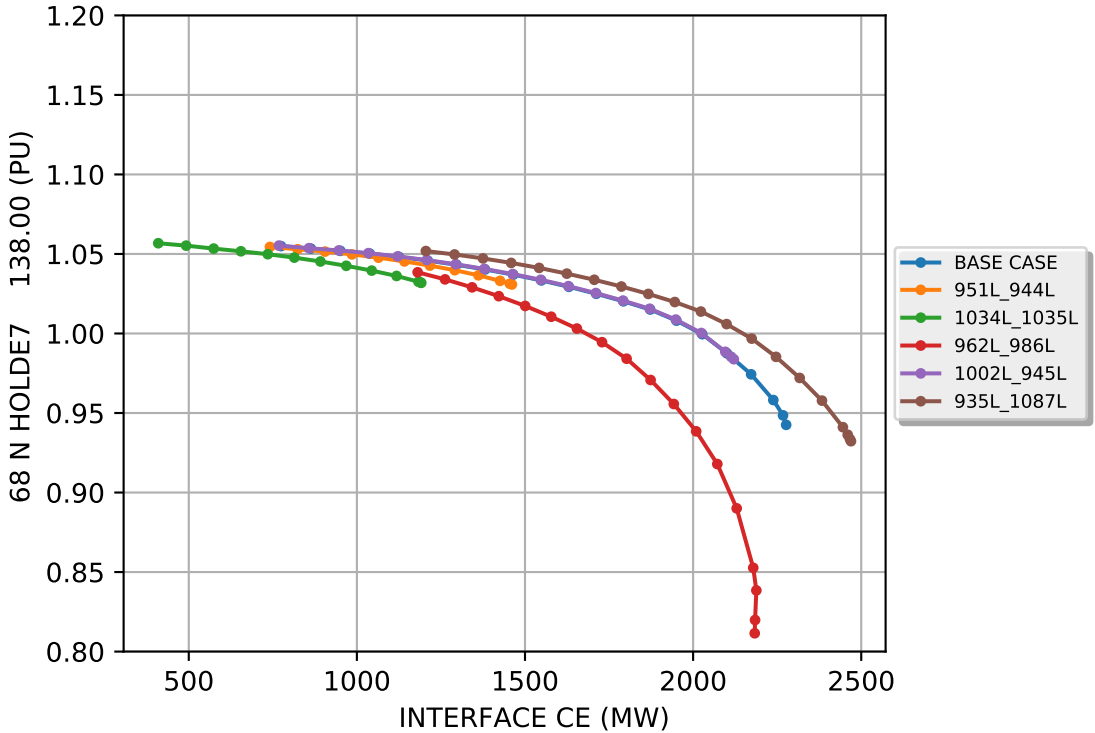


Figure: E-6-77

Case: M3, Option: BOTH2

Min Voltage: 0.97 PU, Min Margin: 85.3%

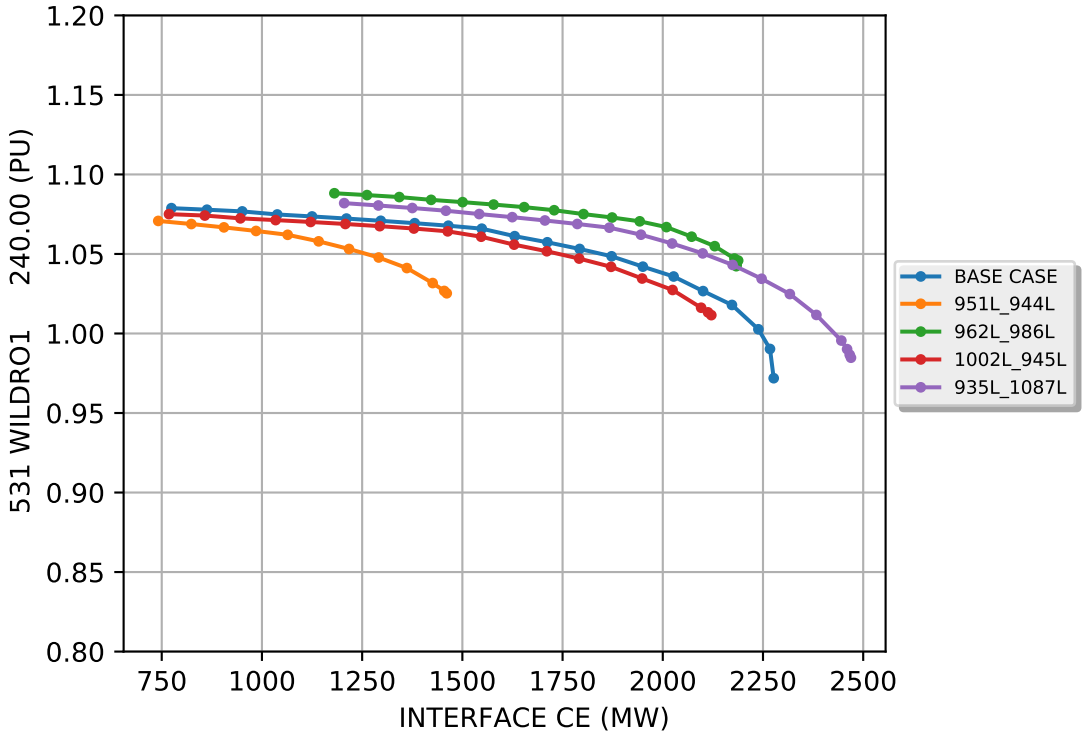


Figure: E-6-78

Case: M3, Option: BOTH2

Min Voltage: 0.79 PU, Min Margin: 85.3%

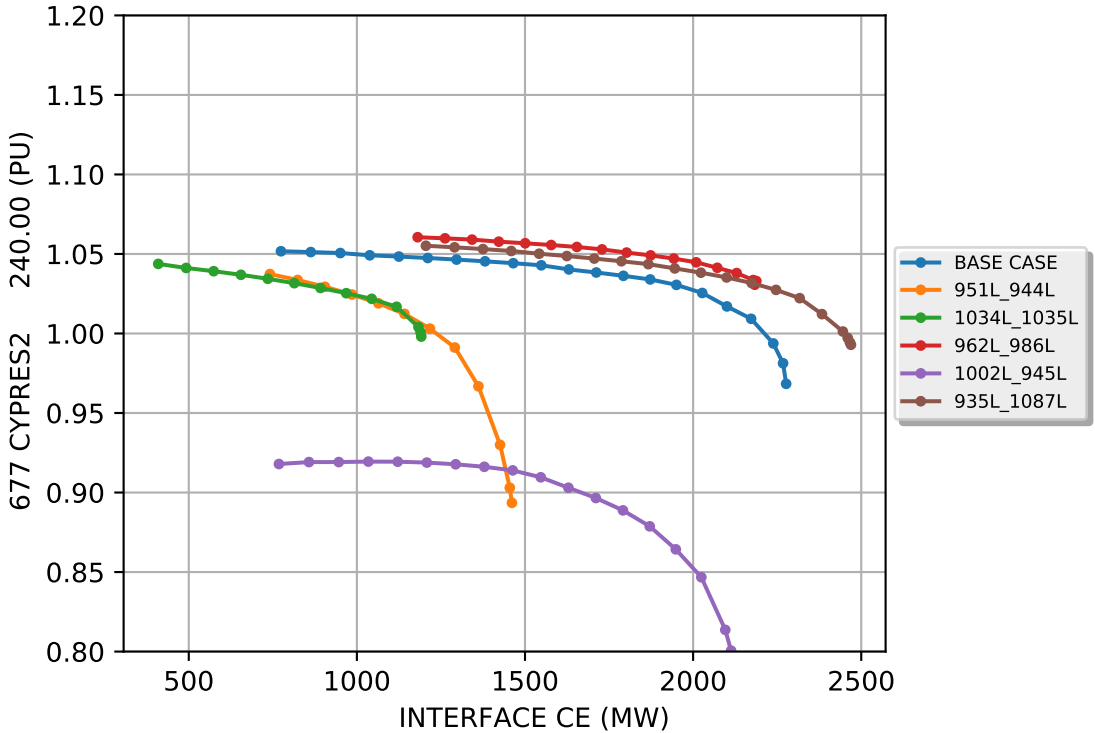


Figure: E-6-79

Case: M3, Option: BOTH2

Min Voltage: 0.81 PU, Min Margin: 85.3%

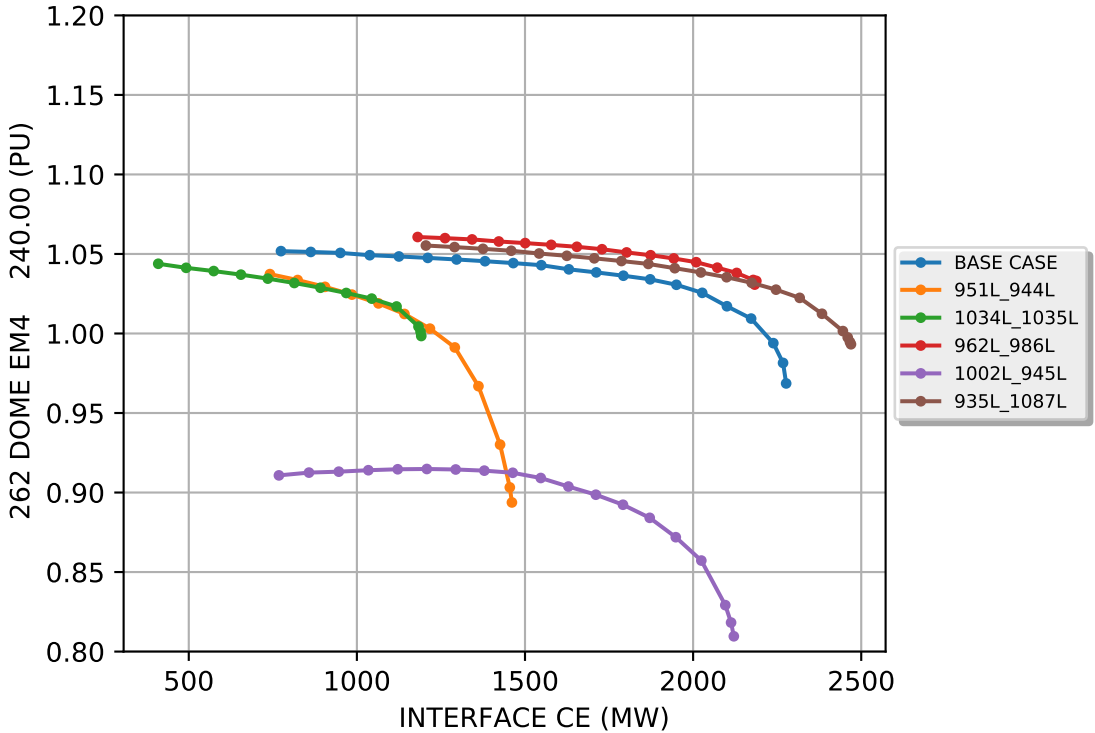


Figure: E-6-80

Case: M3, Option: BOTH2

Min Voltage: 0.94 PU, Min Margin: 85.3%

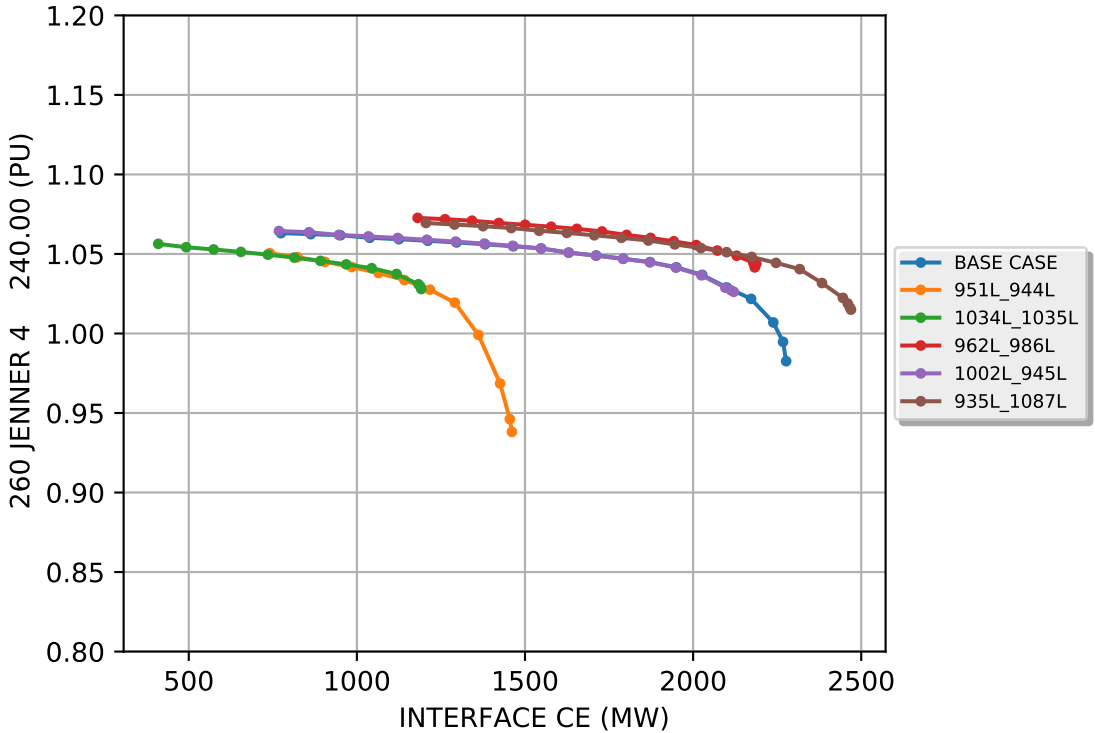


Figure: E-6-81

Case: M3, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 85.3%

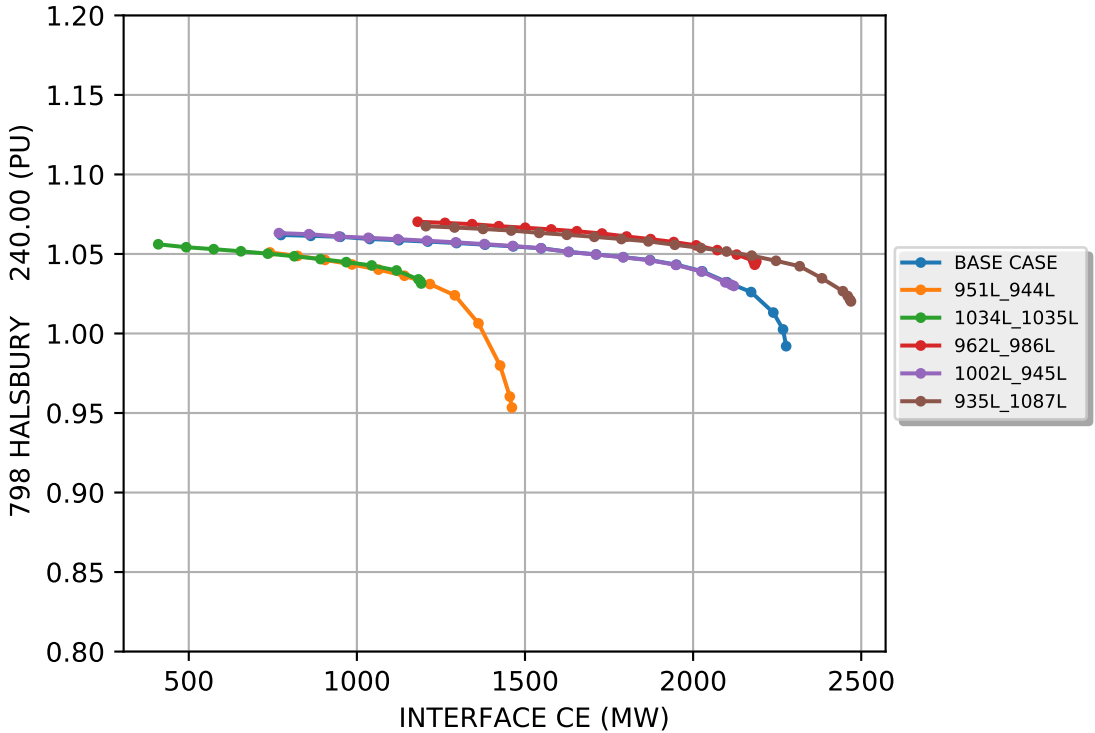


Figure: E-6-82

Case: M3, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 85.3%

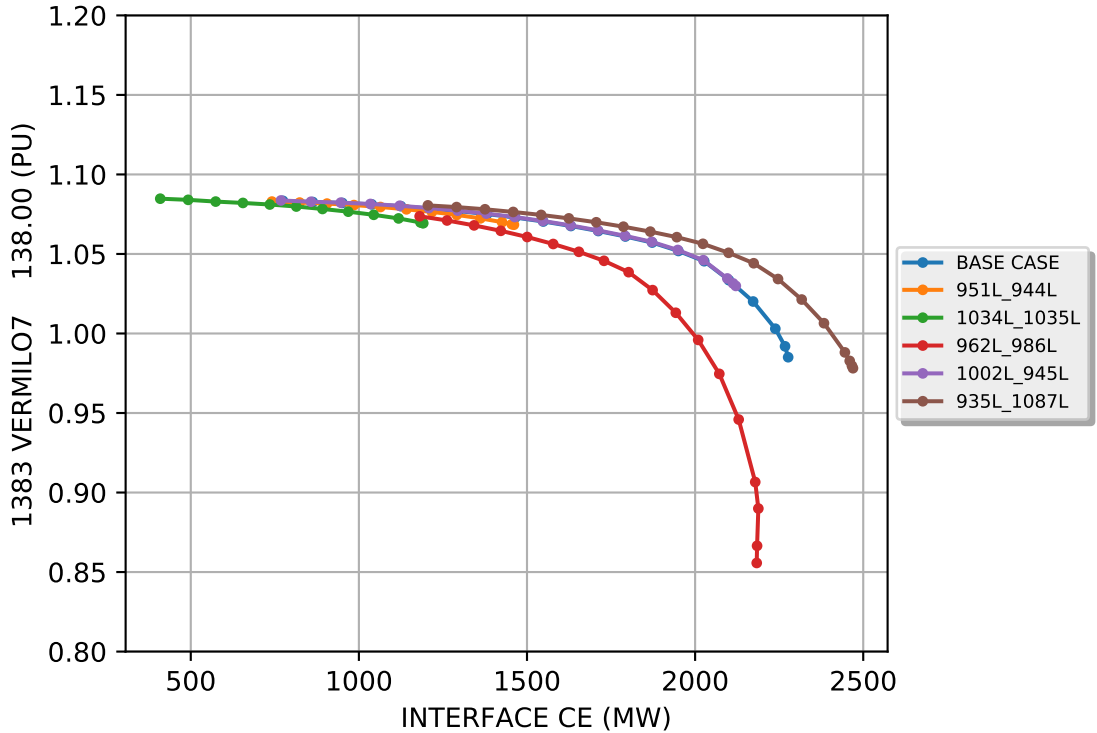


Figure: E-6-83

Case: M3, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 85.3%

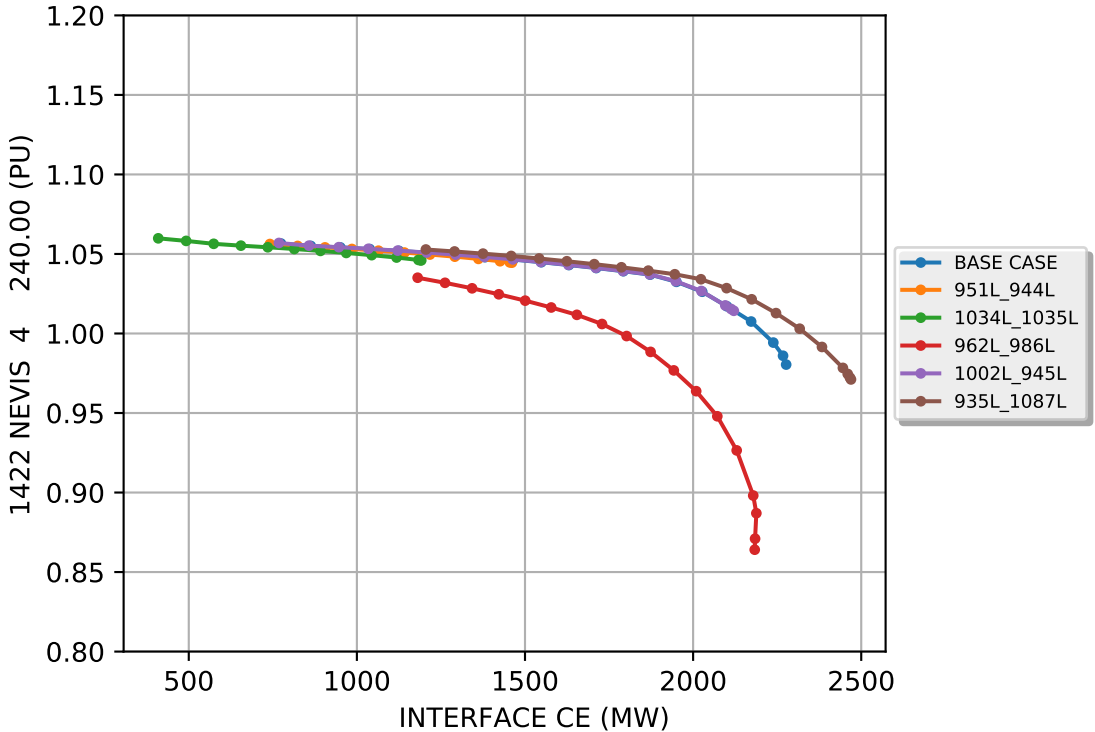


Figure: E-6-84

Case: M6, Option: BOTH2

Min Voltage: 0.93 PU, Min Margin: 36.8%

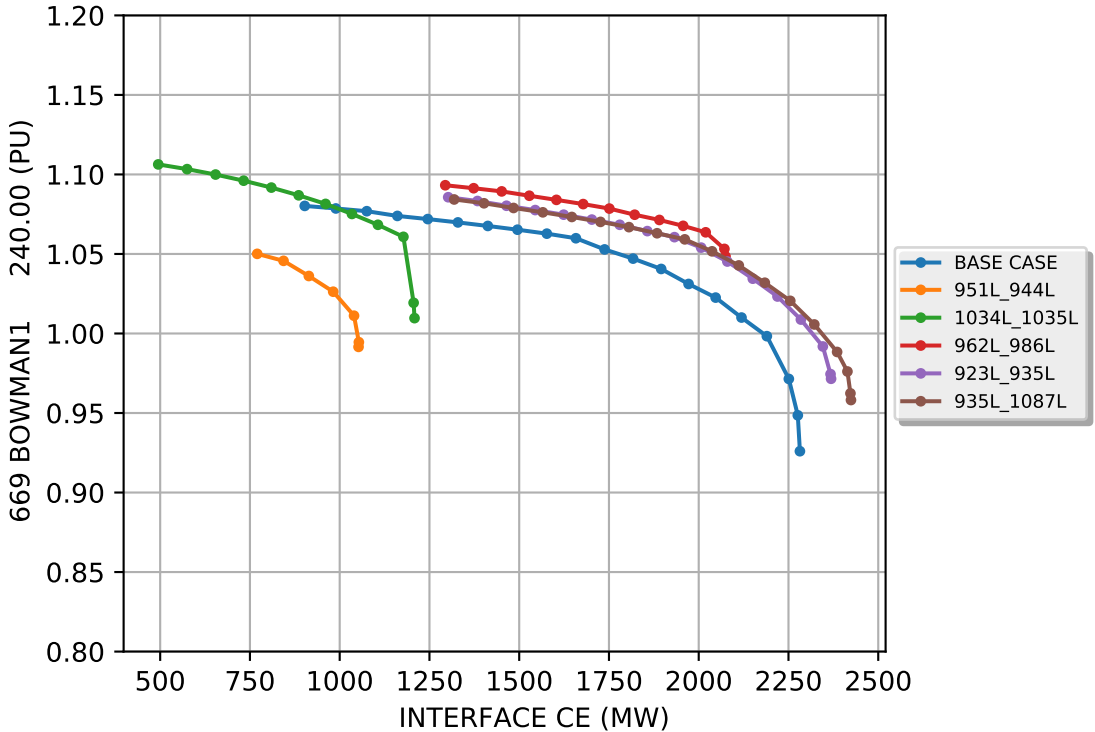


Figure: E-6-85

Case: M6, Option: BOTH2

Min Voltage: 0.83 PU, Min Margin: 36.8%

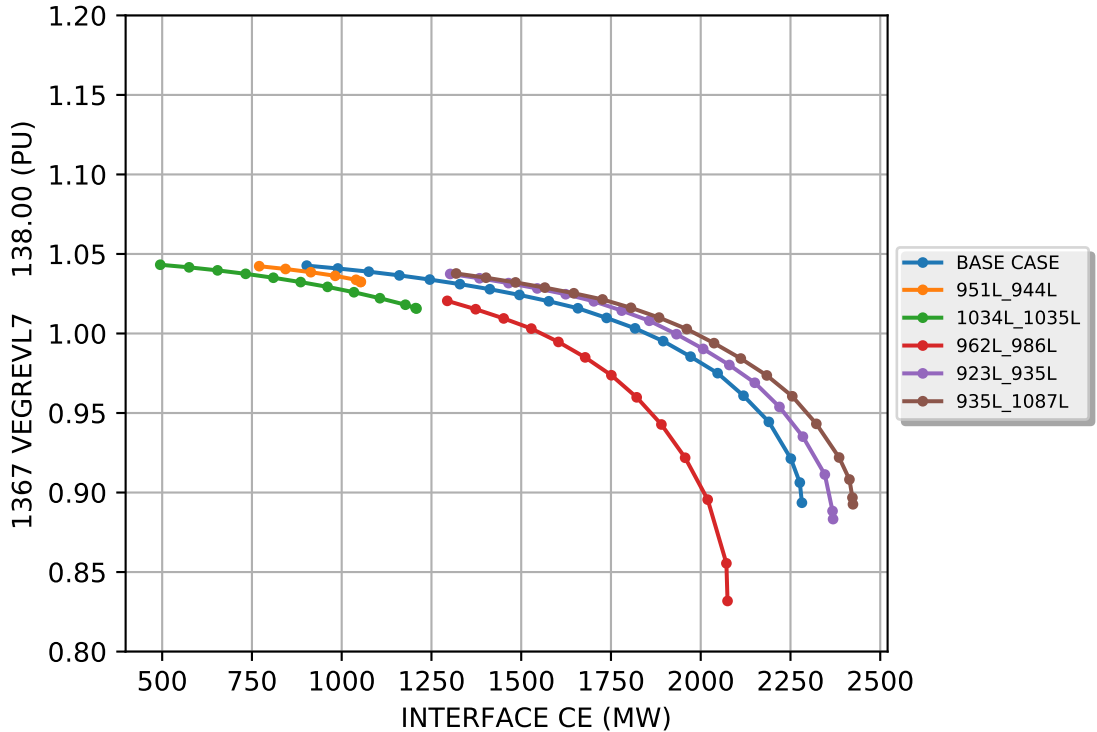


Figure: E-6-86

Case: M6, Option: BOTH2

Min Voltage: 0.85 PU, Min Margin: 36.8%

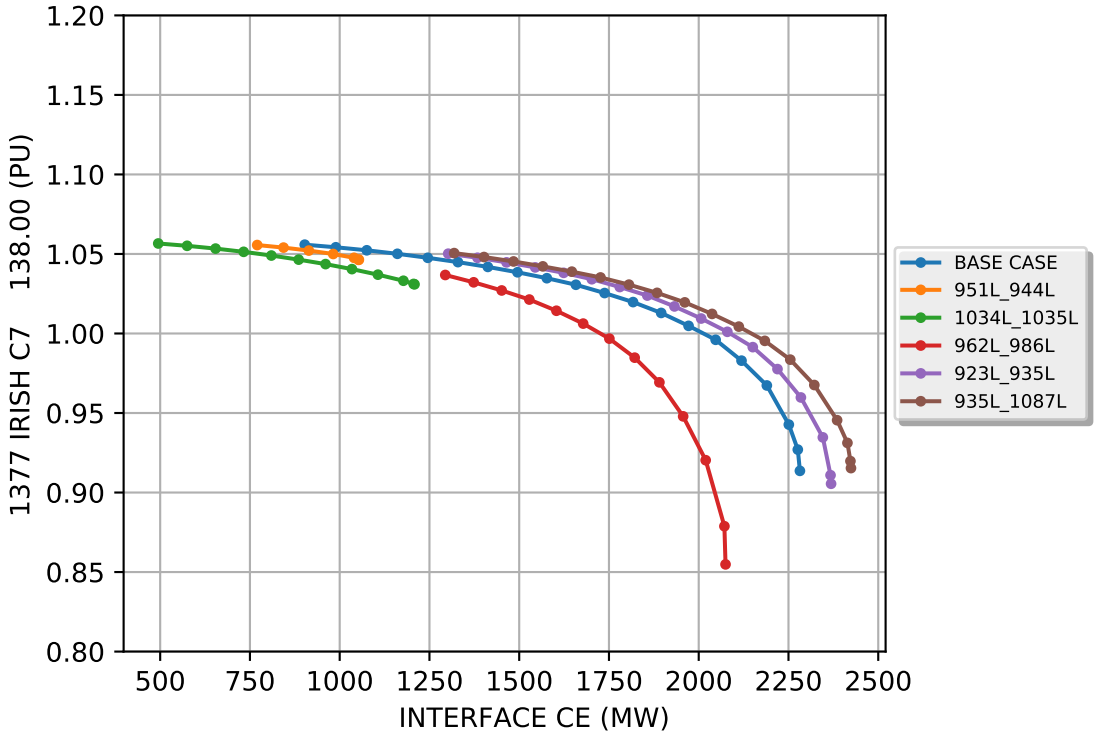


Figure: E-6-87

Case: M6, Option: BOTH2

Min Voltage: 0.85 PU, Min Margin: 36.8%

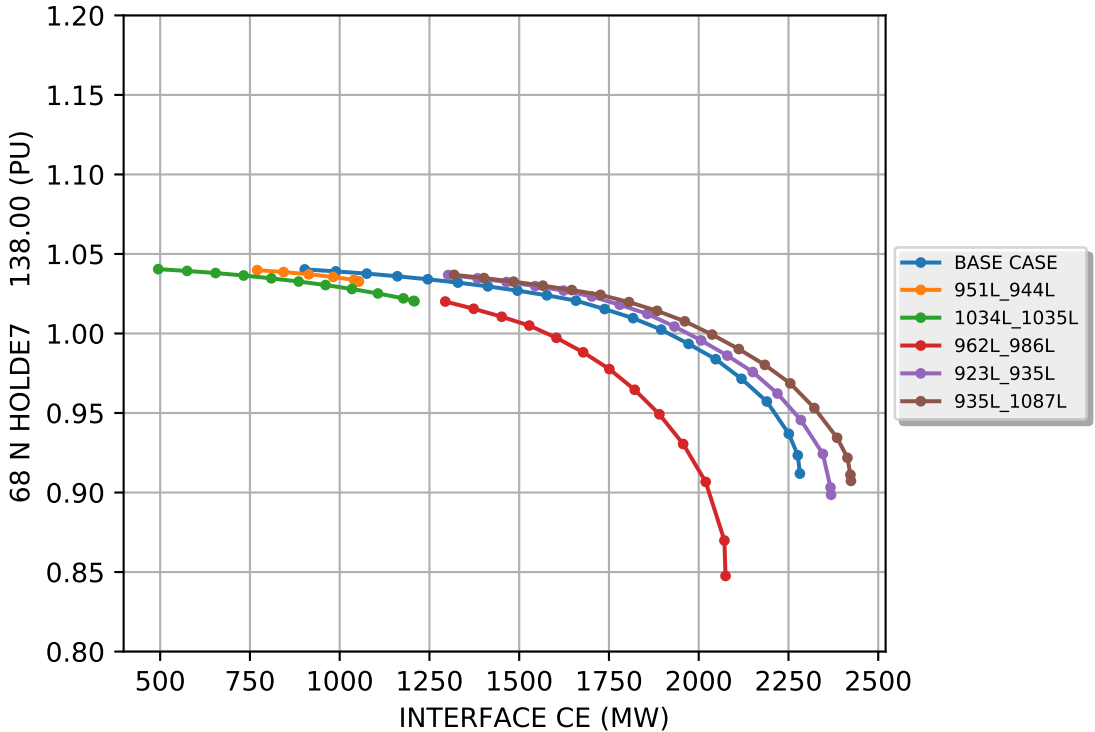


Figure: E-6-88

Case: M6, Option: BOTH2

Min Voltage: 0.91 PU, Min Margin: 36.8%

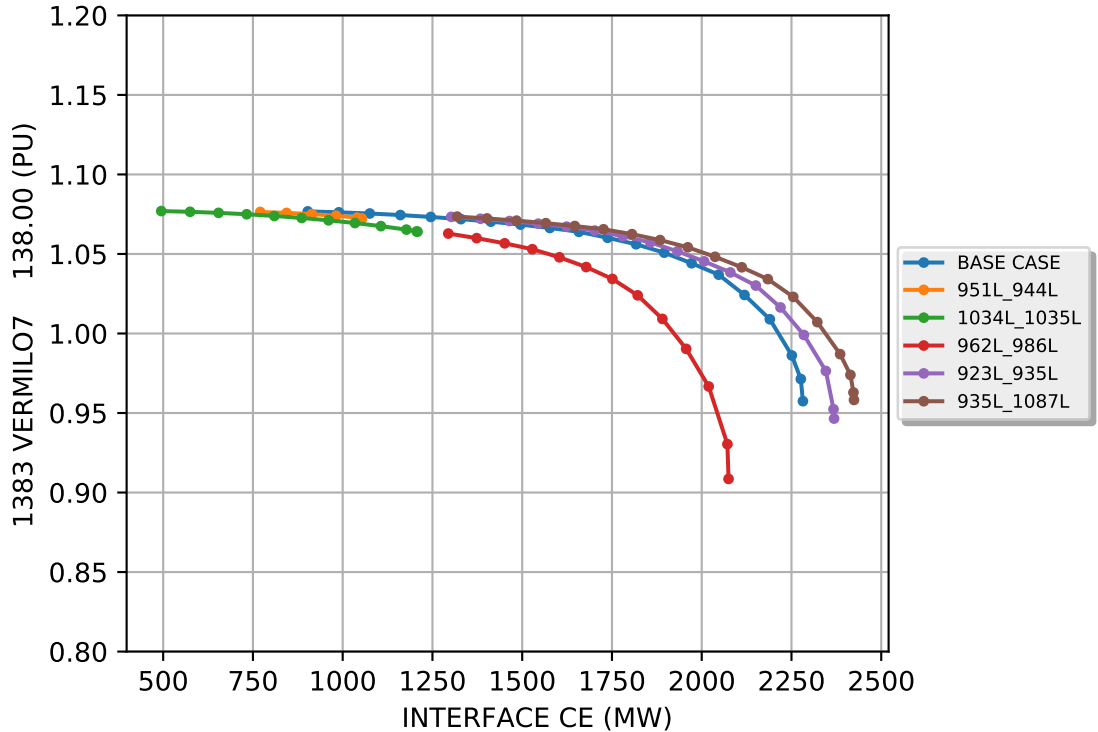


Figure: E-6-89

Case: M6, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 36.8%

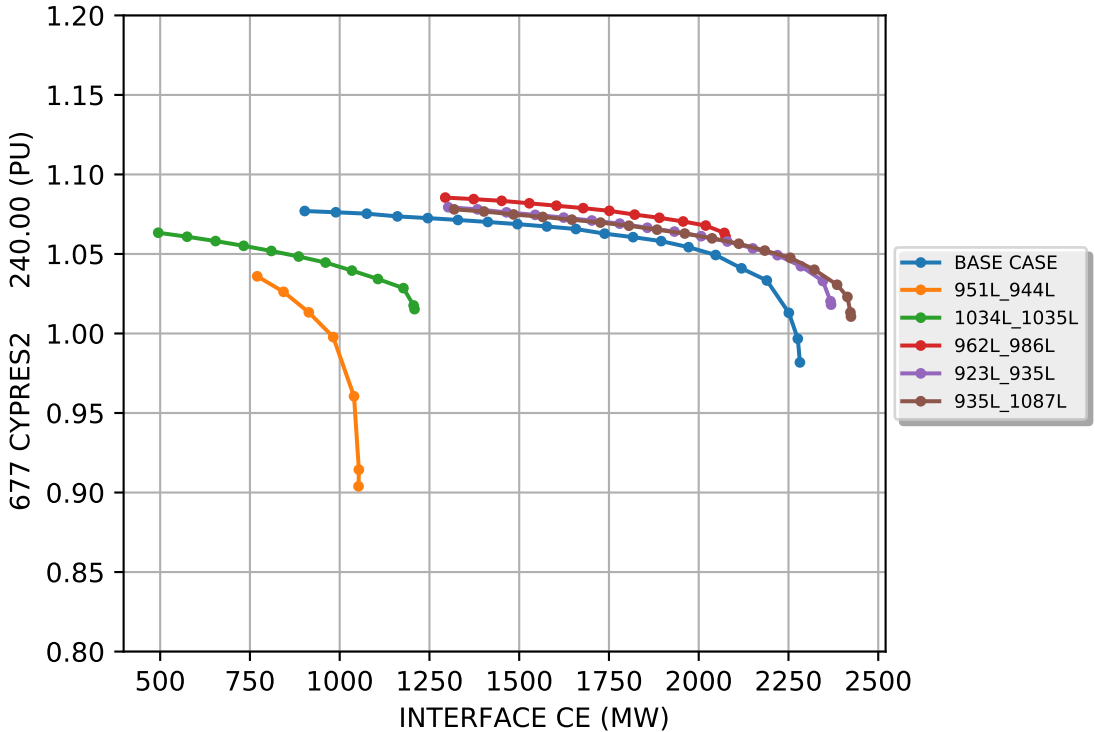


Figure: E-6-90

Case: M6, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 36.8%

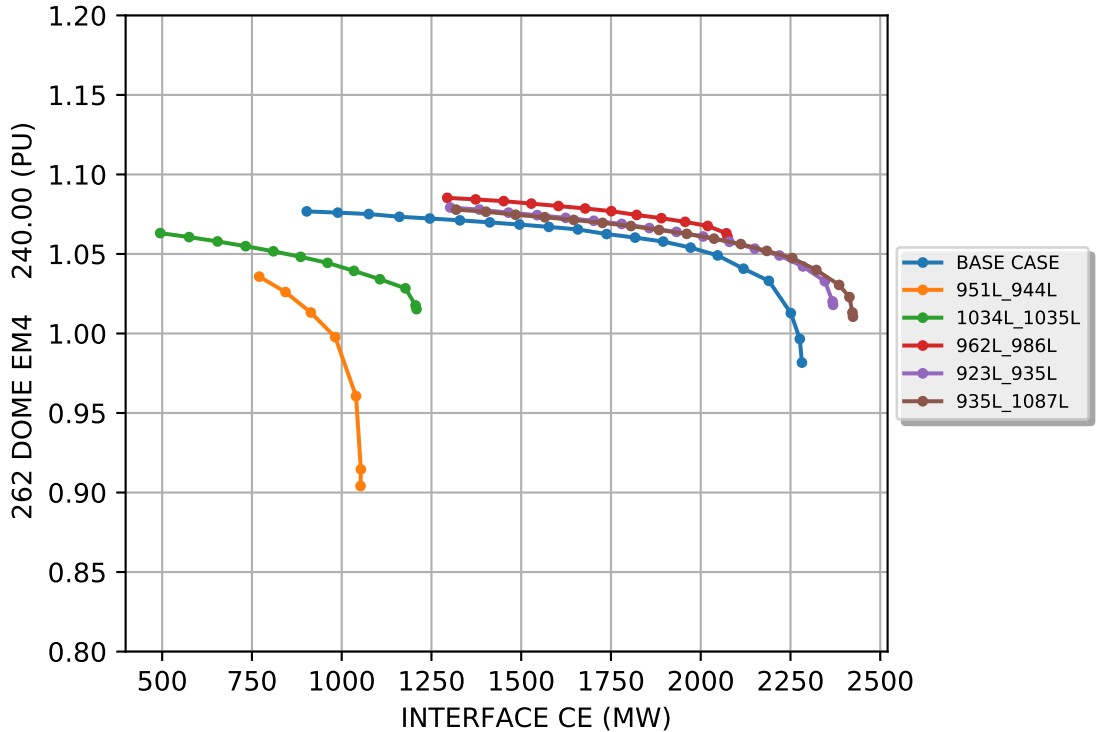


Figure: E-6-91

Case: M6, Option: BOTH2

Min Voltage: 0.96 PU, Min Margin: 36.8%

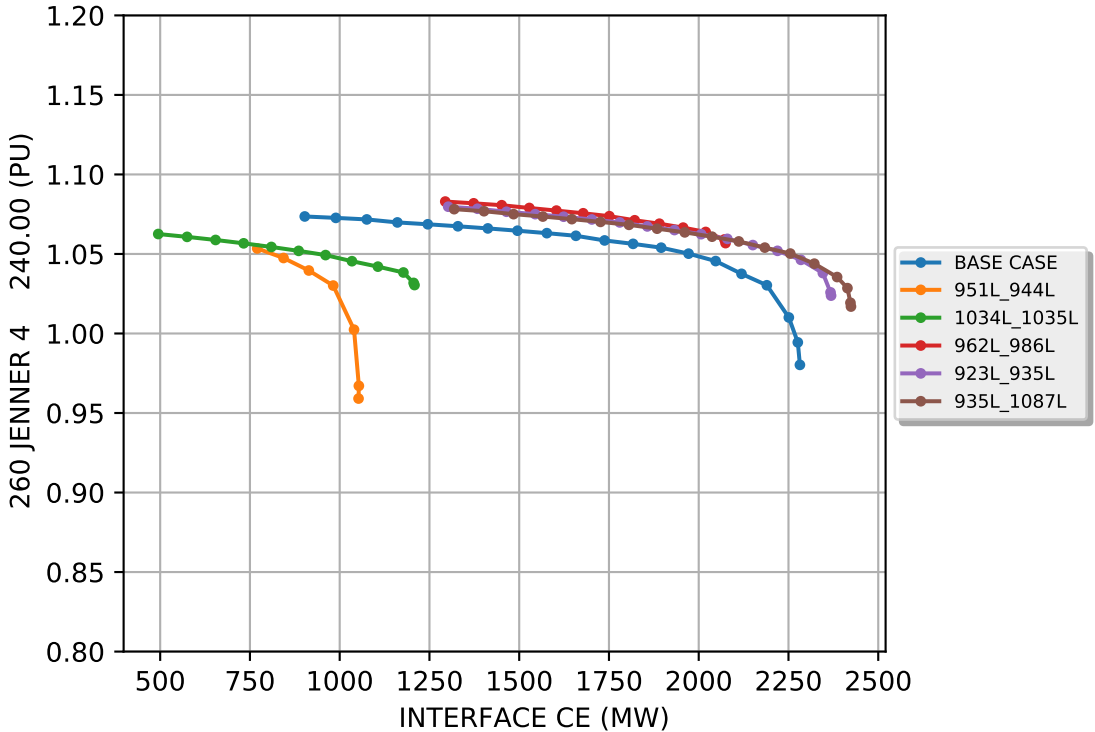


Figure: E-6-92

Case: M6, Option: BOTH2

Min Voltage: 0.97 PU, Min Margin: 36.8%

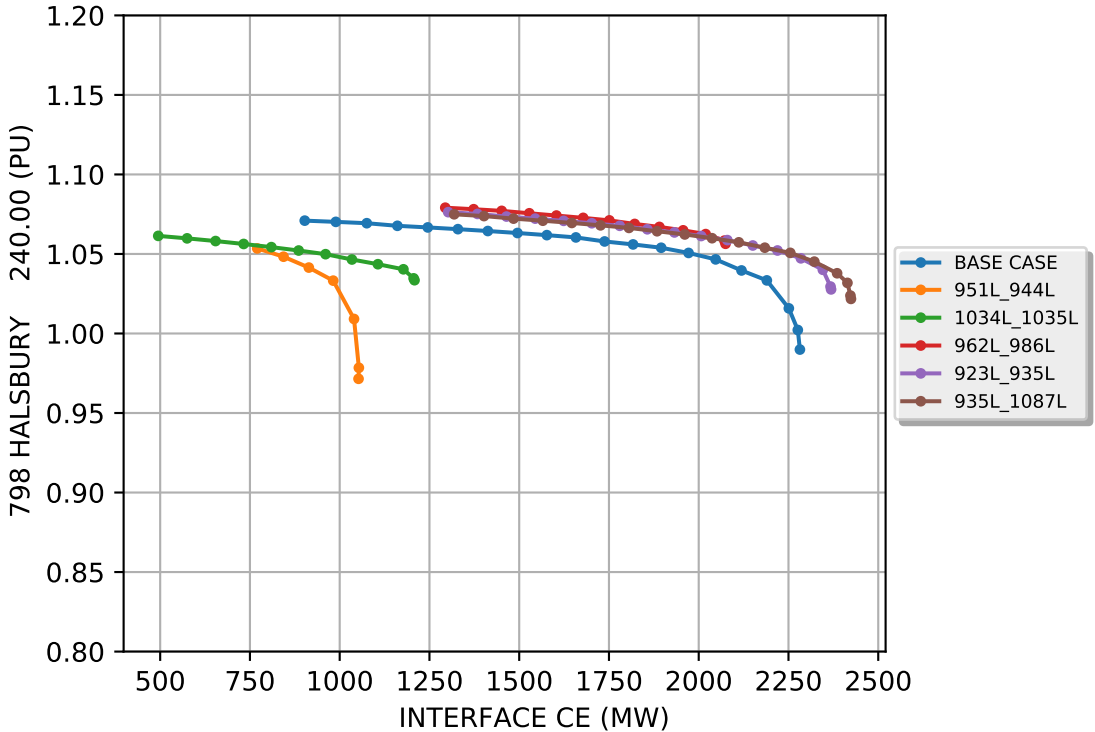


Figure: E-6-93

Case: M6, Option: BOTH2

Min Voltage: 0.94 PU, Min Margin: 36.8%

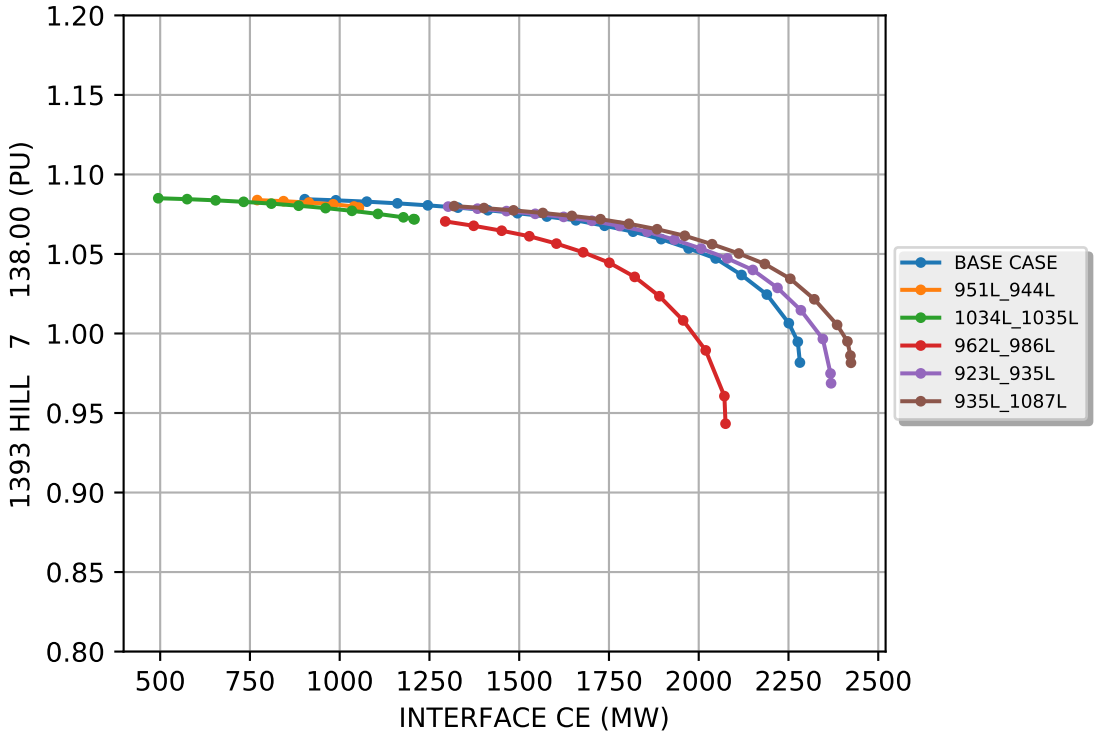


Figure: E-6-94

Case: H4, Option: BOTHC2

Min Voltage: 0.84 PU, Min Margin: 46.9%

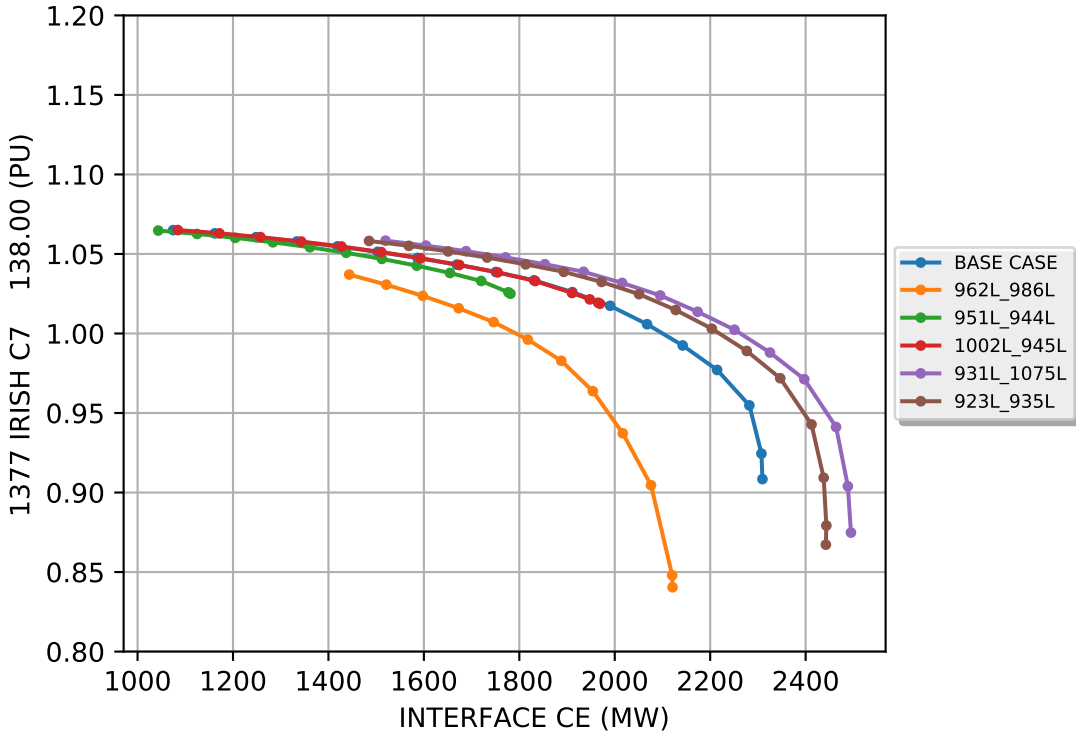


Figure: E-6-95

Case: H4, Option: BOTHC2

Min Voltage: 0.81 PU, Min Margin: 46.9%

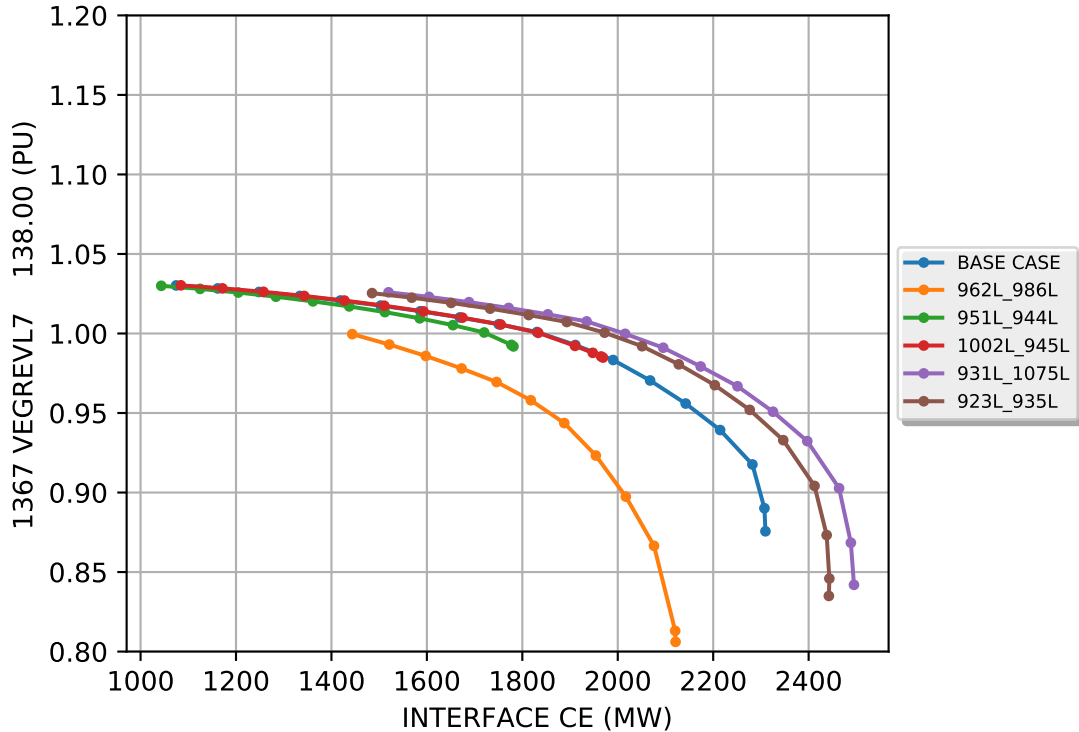


Figure: E-6-96

Case: H4, Option: BOTHC2

Min Voltage: 0.86 PU, Min Margin: 46.9%

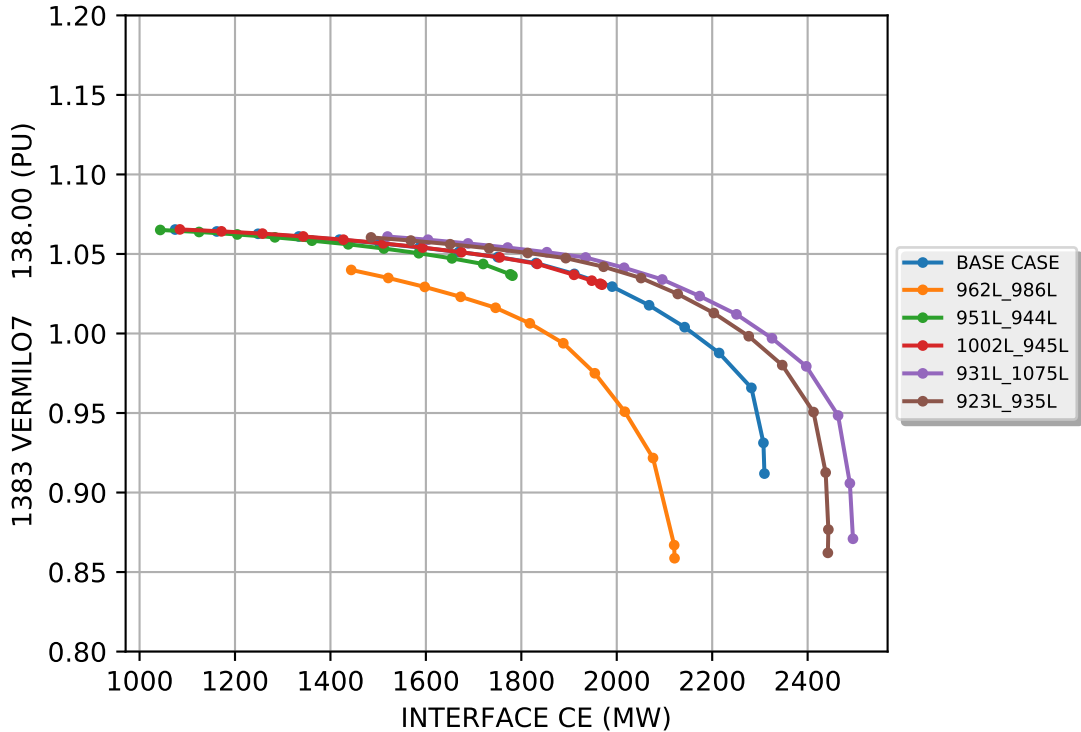


Figure: E-6-97

Case: H4, Option: BOTHC2

Min Voltage: 0.86 PU, Min Margin: 46.9%

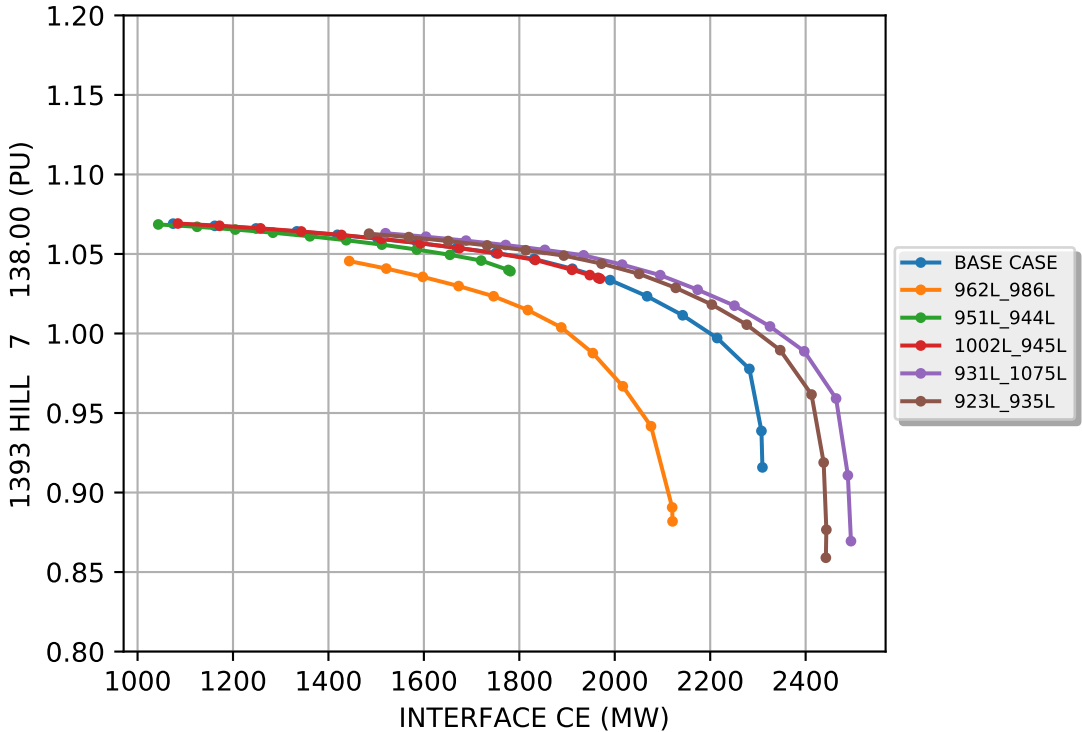


Figure: E-6-98

Case: H4, Option: BOTHC2

Min Voltage: 0.86 PU, Min Margin: 46.9%

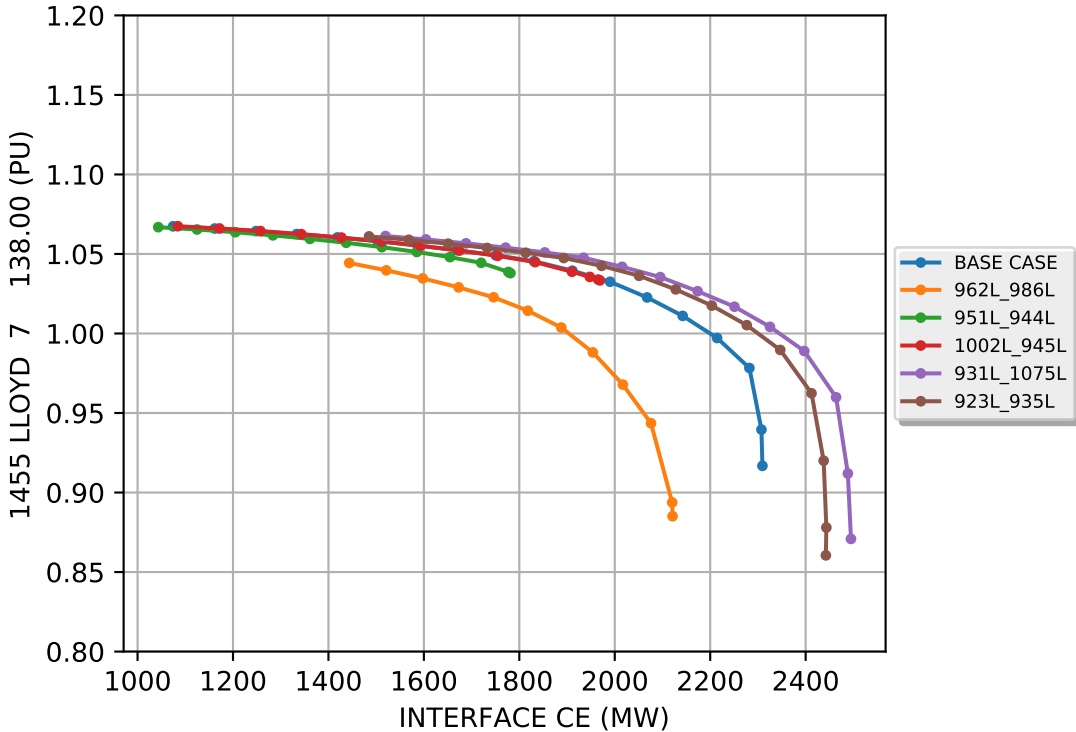


Figure: E-6-99

Case: H4, Option: BOTHC2

Min Voltage: 0.83 PU, Min Margin: 46.9%

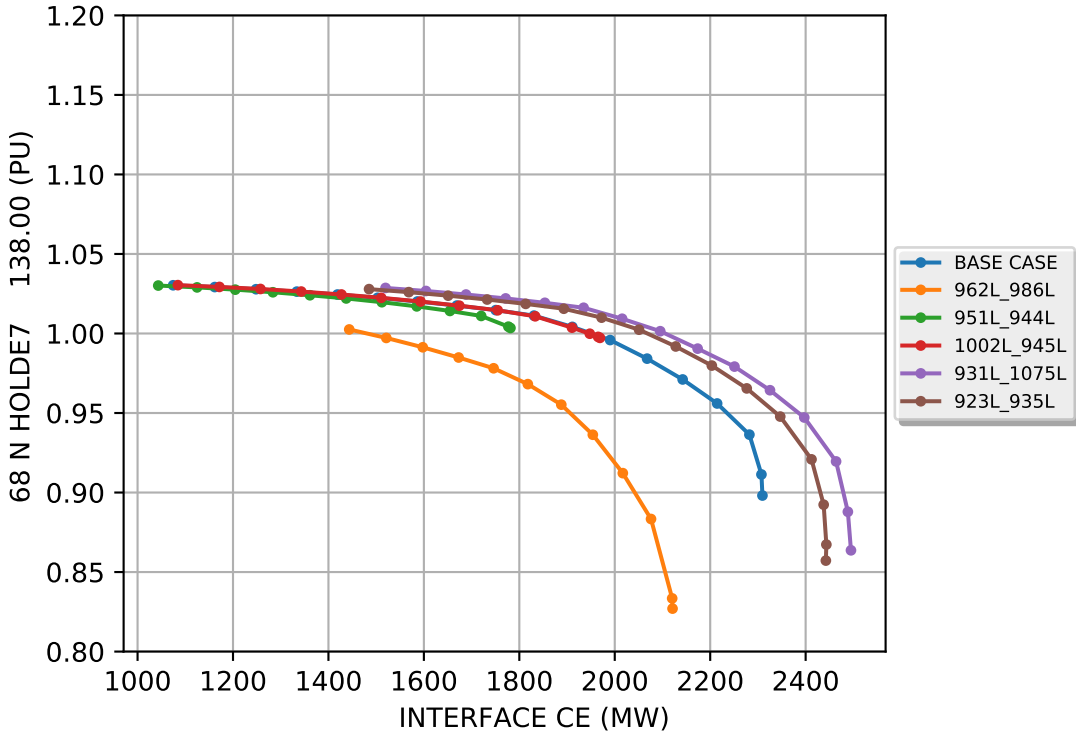


Figure: E-6-100

Case: H4, Option: BOTHC2

Min Voltage: 0.90 PU, Min Margin: 46.9%

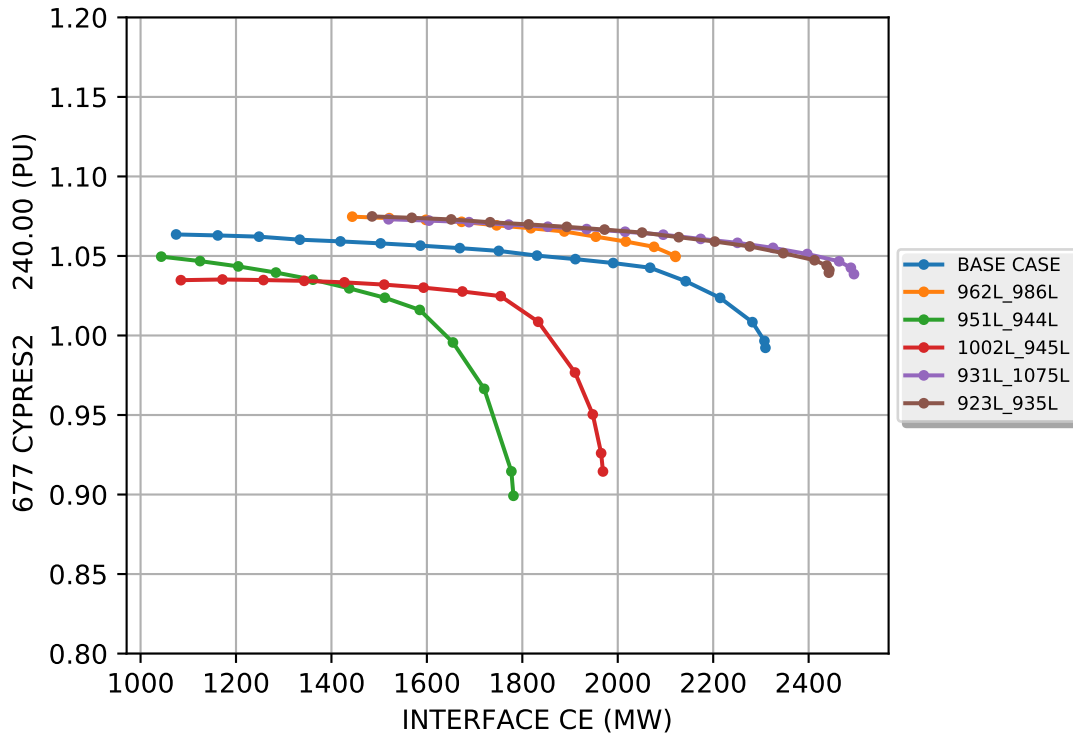


Figure: E-6-101

Case: H4, Option: BOTHC2

Min Voltage: 0.90 PU, Min Margin: 46.9%

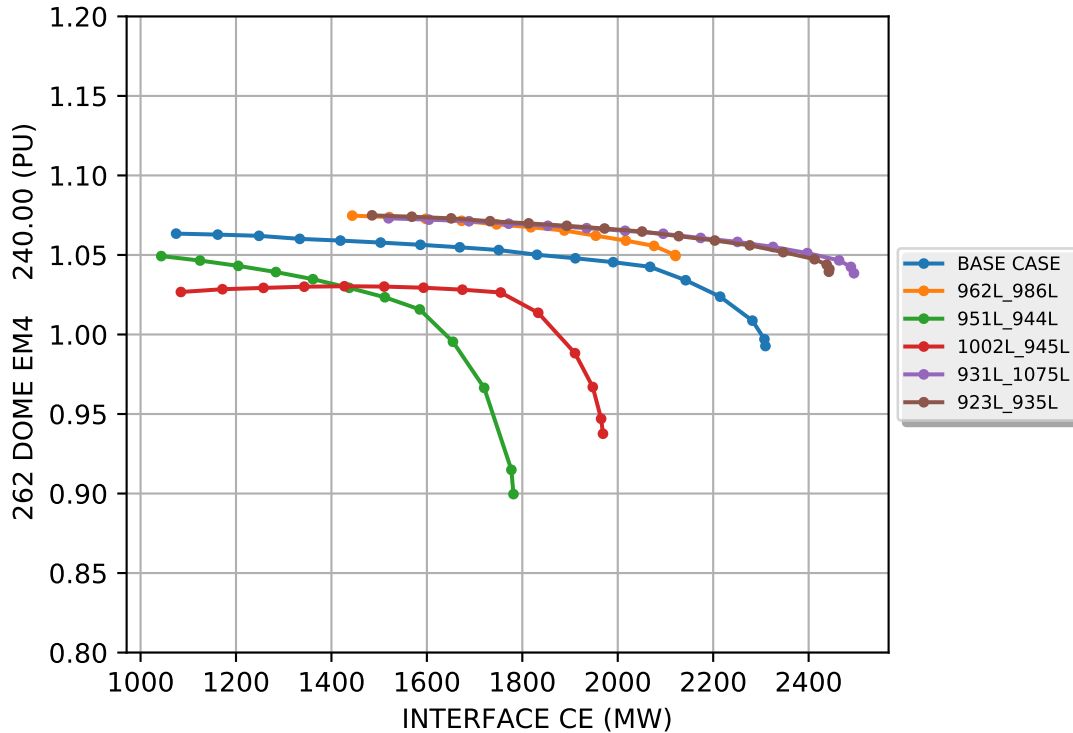


Figure: E-6-102

Case: H4, Option: BOTHC2

Min Voltage: 0.94 PU, Min Margin: 46.9%

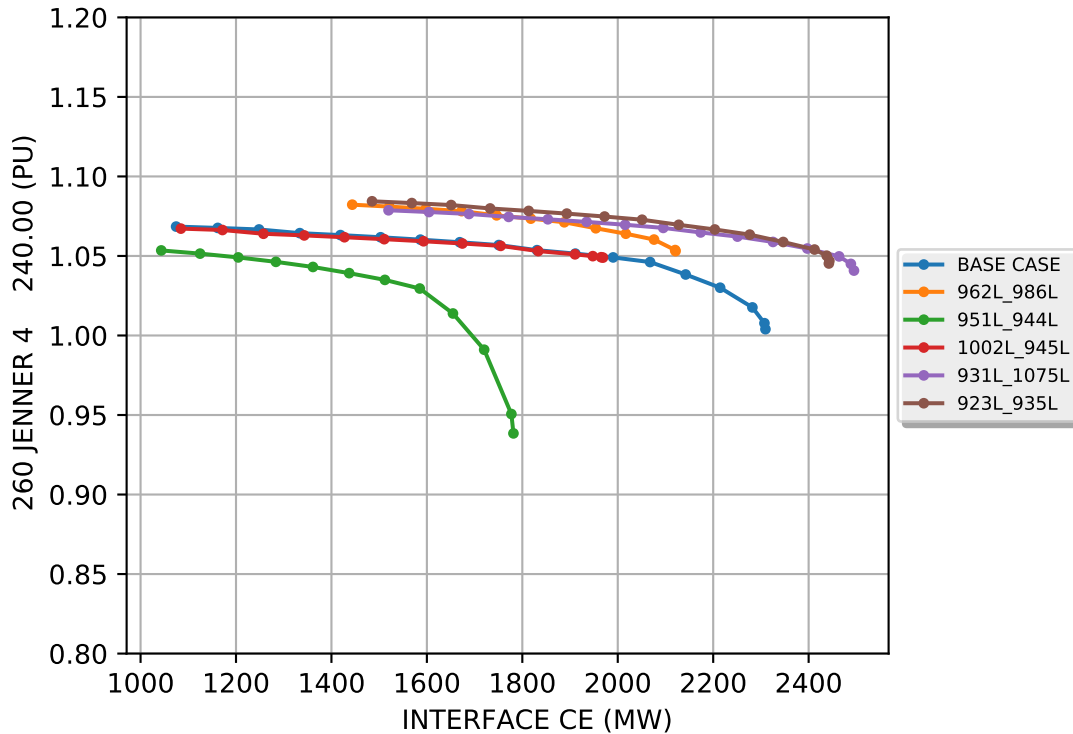


Figure: E-6-103

Case: H4, Option: BOTHC2

Min Voltage: 0.95 PU, Min Margin: 46.9%

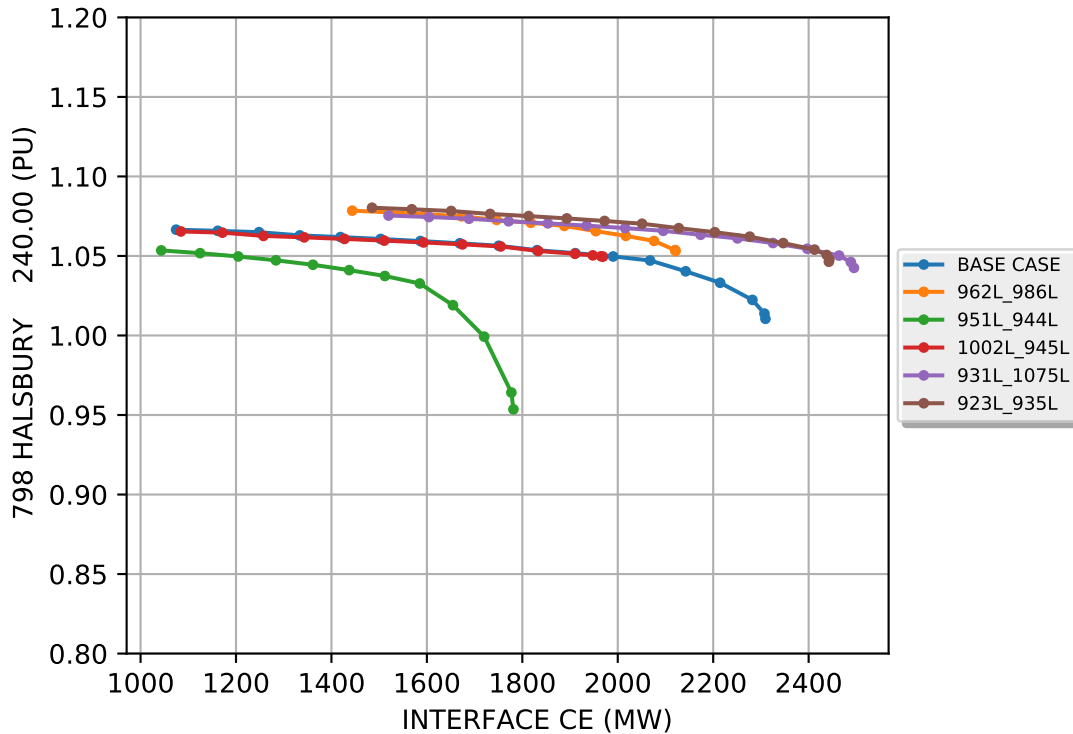


Figure: E-6-104

Case: H4, Option: BOTHC2

Min Voltage: 1.02 PU, Min Margin: 46.9%

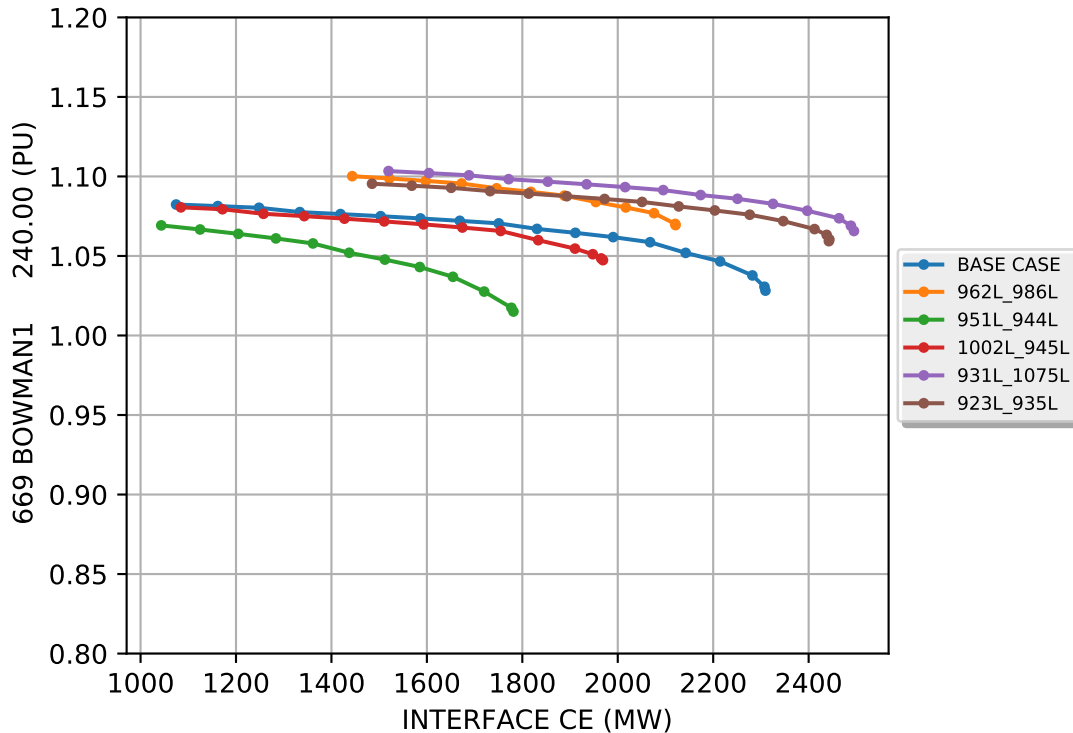


Figure: E-6-105

Case: M12, Option: BOTH2

Min Voltage: 0.81 PU, Min Margin: 60.7%

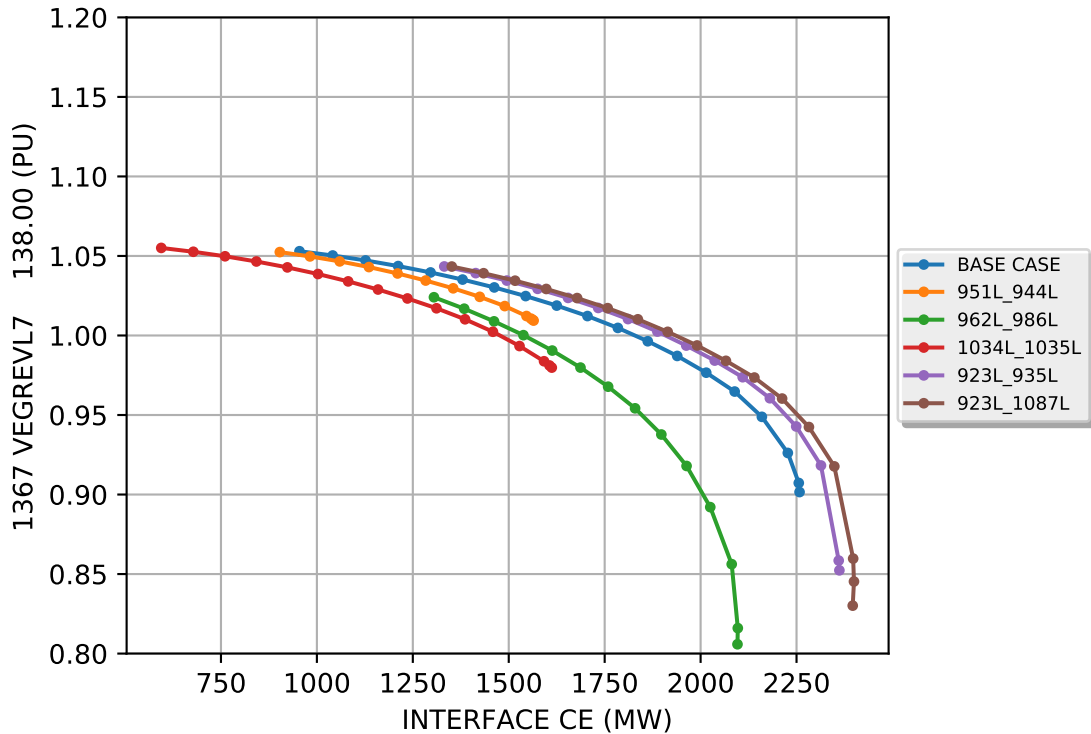


Figure: E-6-106

Case: M12, Option: BOTH2

Min Voltage: 0.82 PU, Min Margin: 60.7%

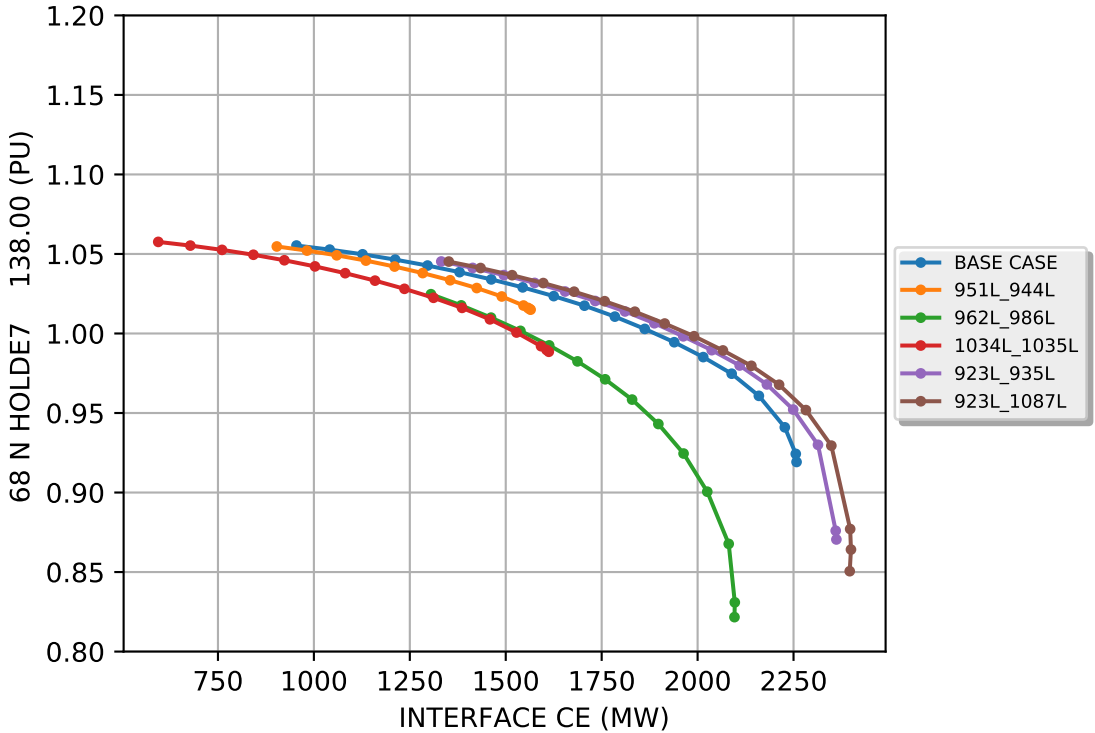


Figure: E-6-107

Case: M12, Option: BOTH2

Min Voltage: 0.84 PU, Min Margin: 60.7%

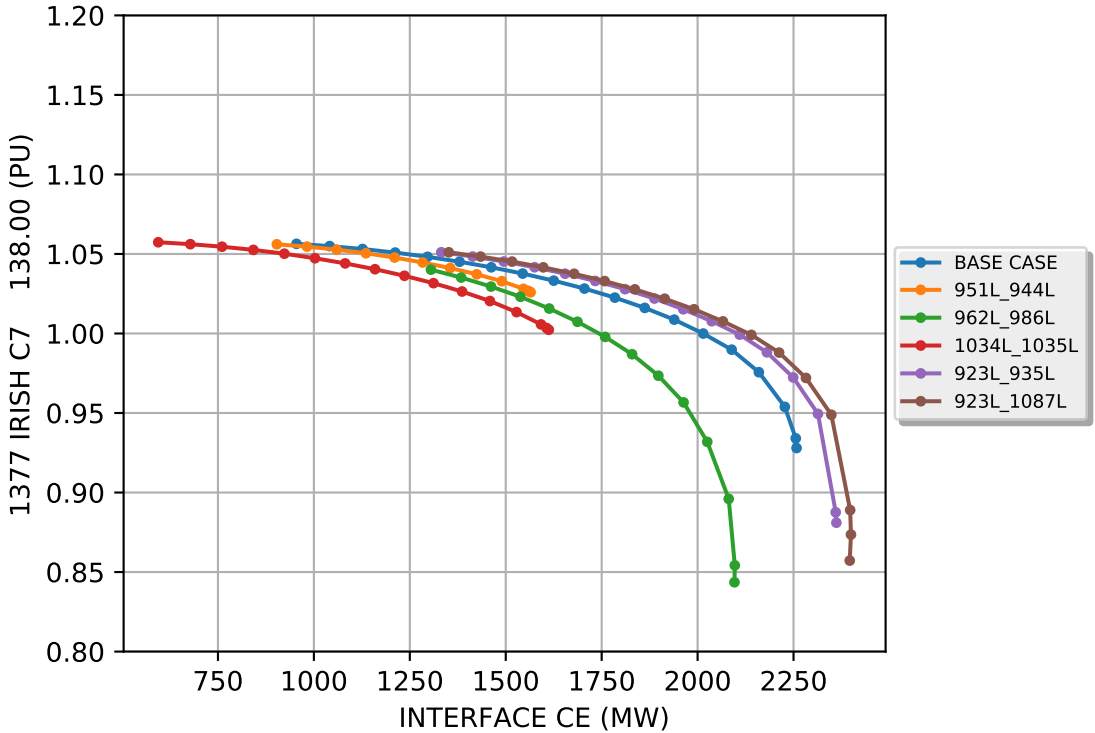


Figure: E-6-108

Case: M12, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 60.7%

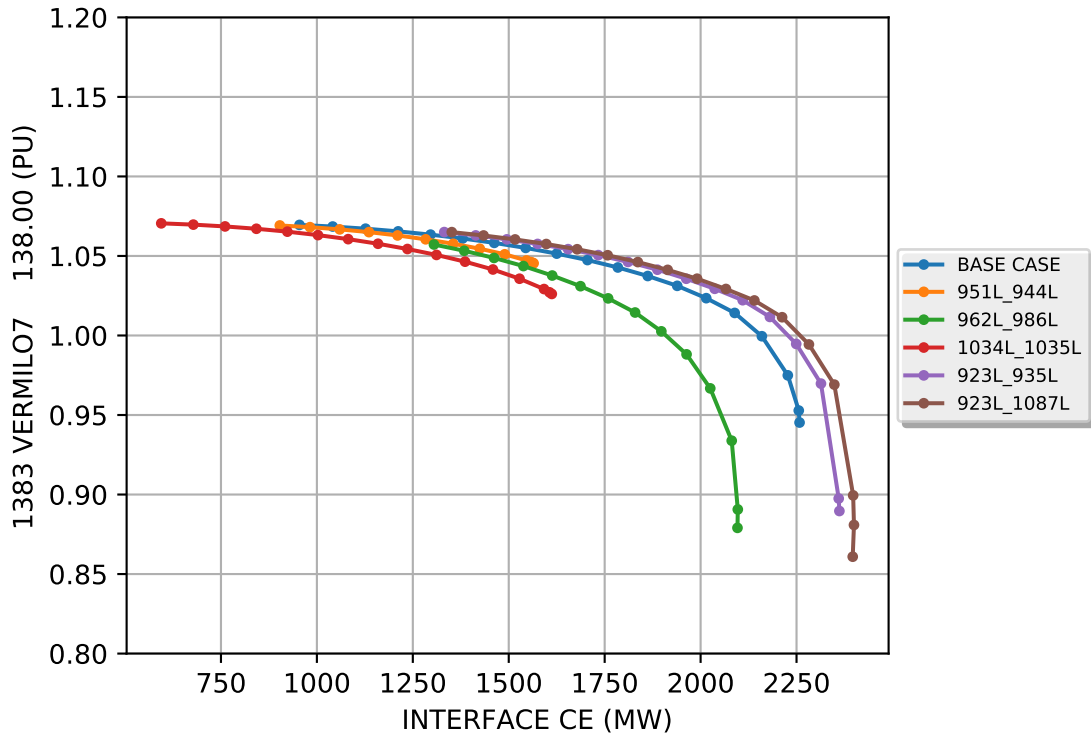


Figure: E-6-109

Case: M12, Option: BOTH2

Min Voltage: 0.82 PU, Min Margin: 60.7%

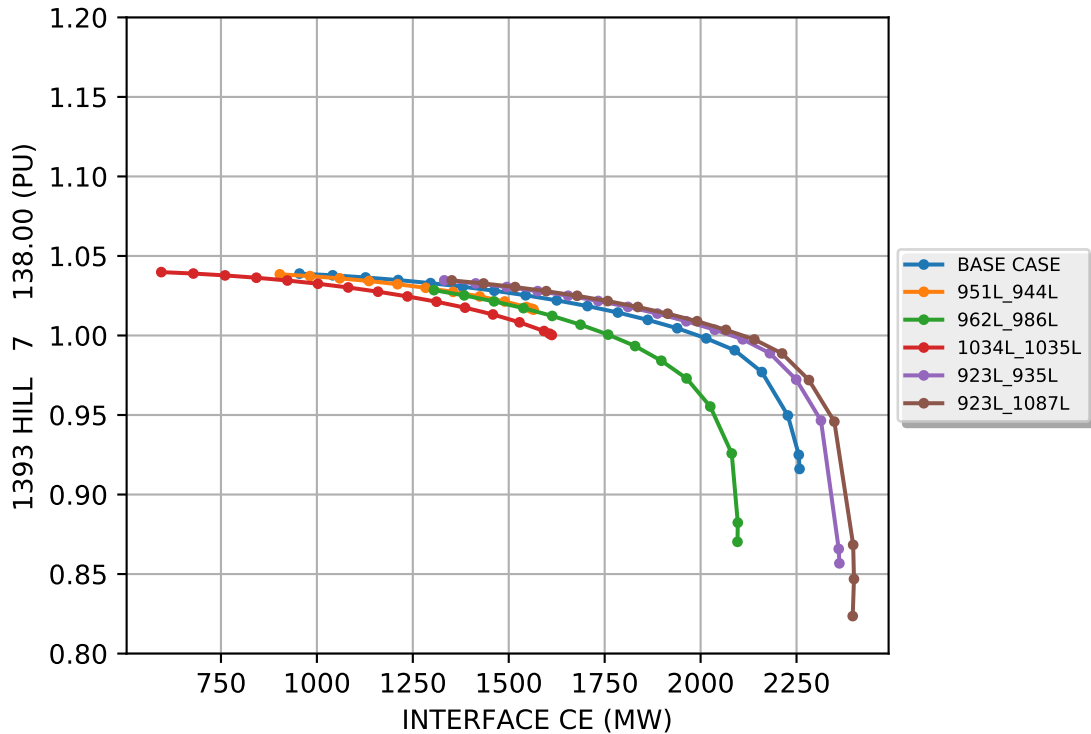


Figure: E-6-110

Case: M12, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 60.7%

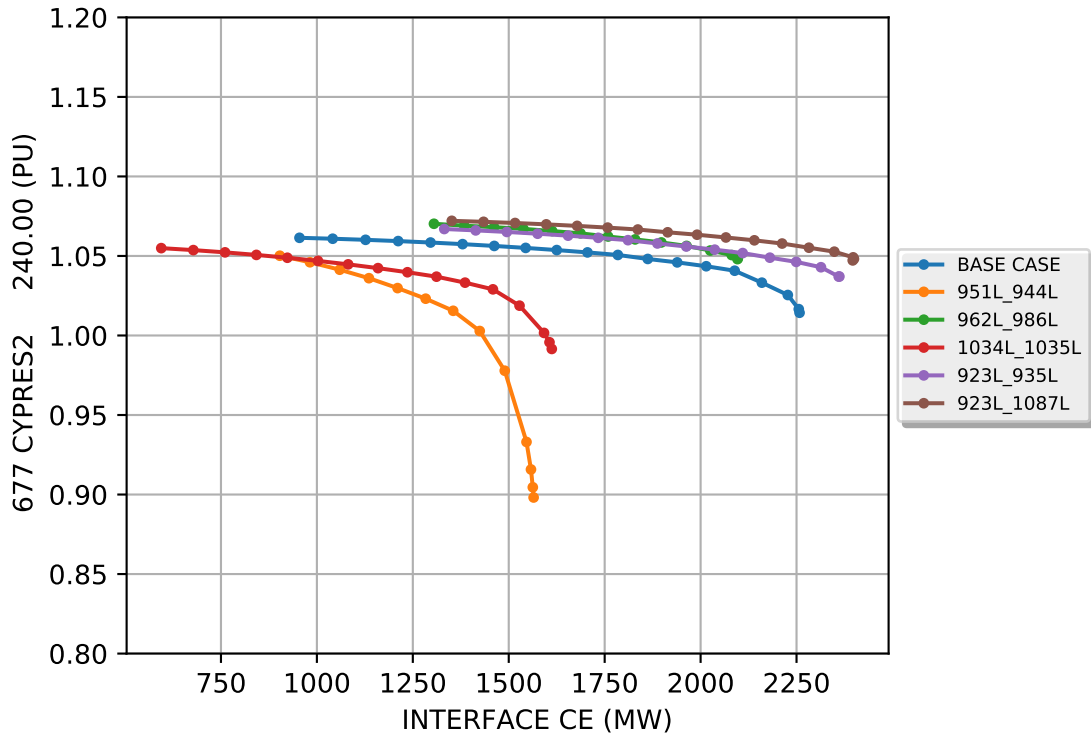


Figure: E-6-111

Case: M12, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 60.7%

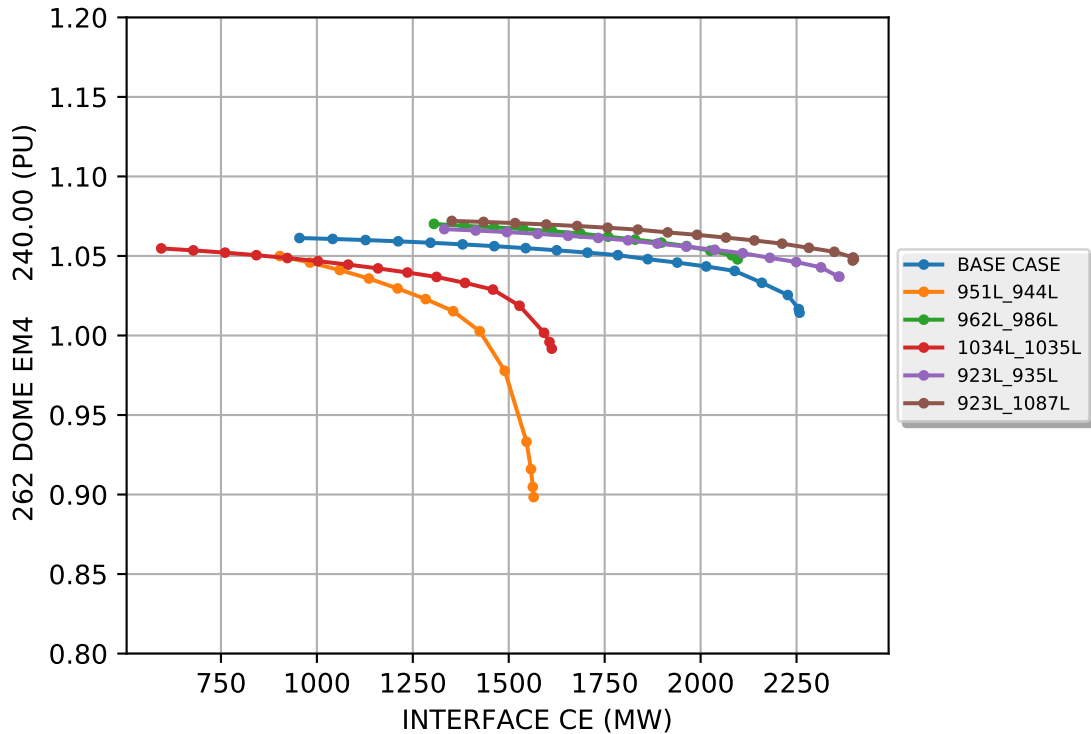


Figure: E-6-112

Case: M12, Option: BOTH2

Min Voltage: 0.94 PU, Min Margin: 60.7%

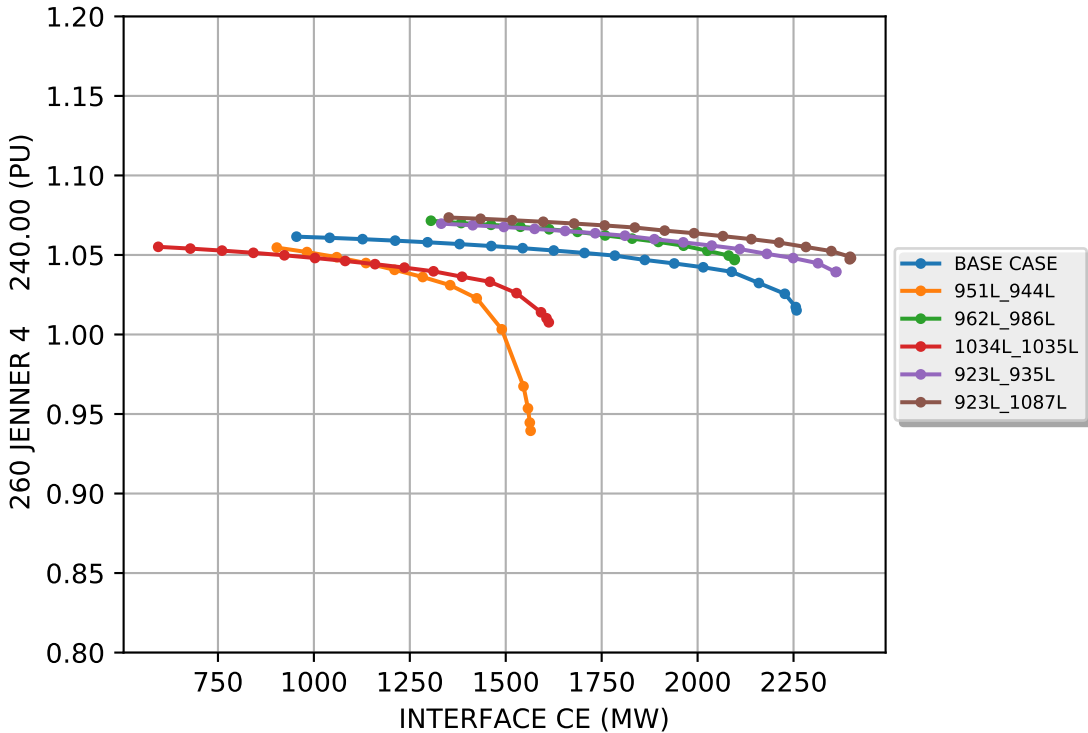


Figure: E-6-113

Case: M12, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 60.7%

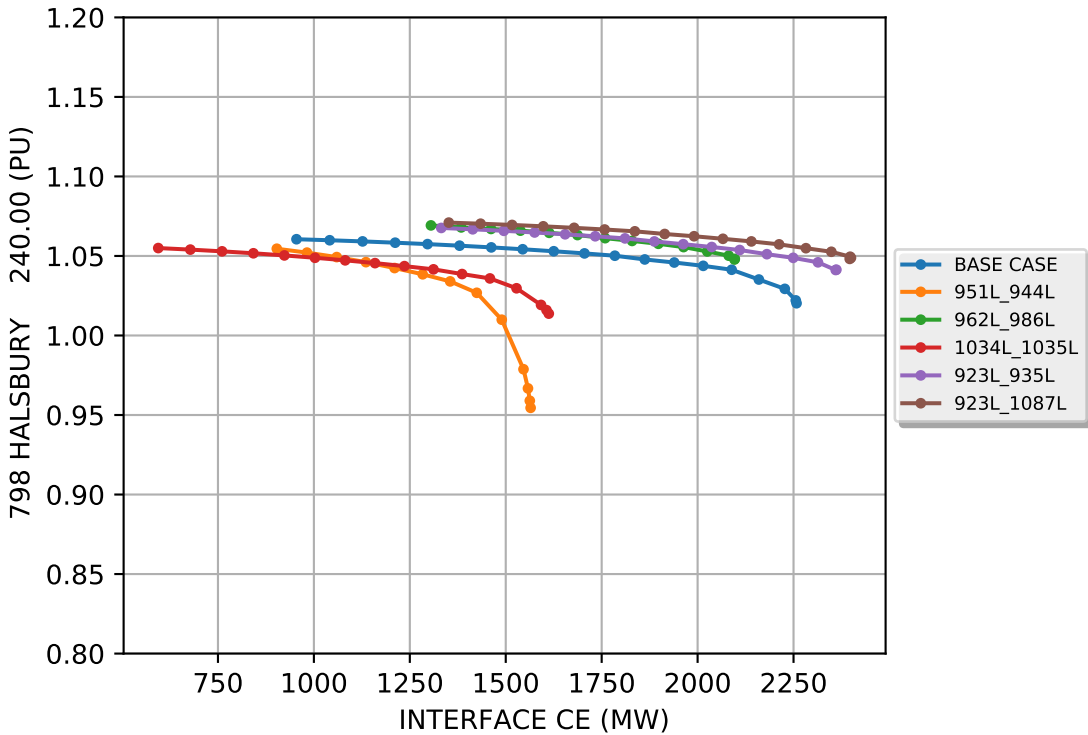


Figure: E-6-114

Case: M12, Option: BOTH2

Min Voltage: 0.92 PU, Min Margin: 60.7%

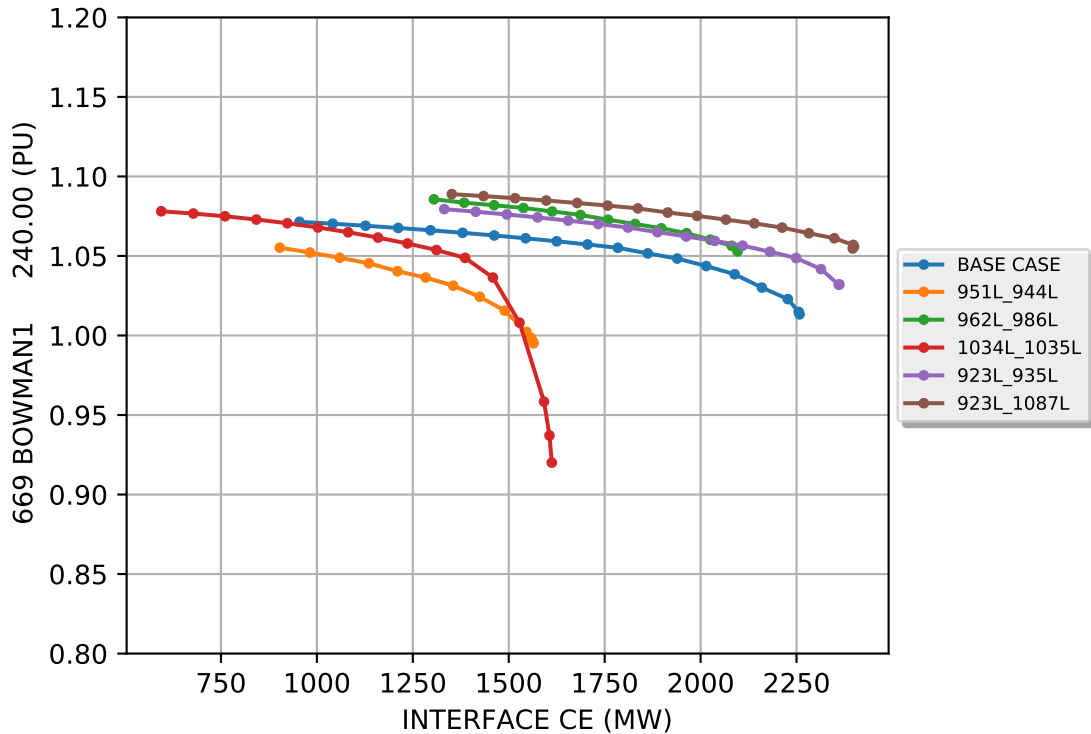


Figure: E-6-115

Case: M12, Option: BOTH2

Min Voltage: 0.82 PU, Min Margin: 60.7%

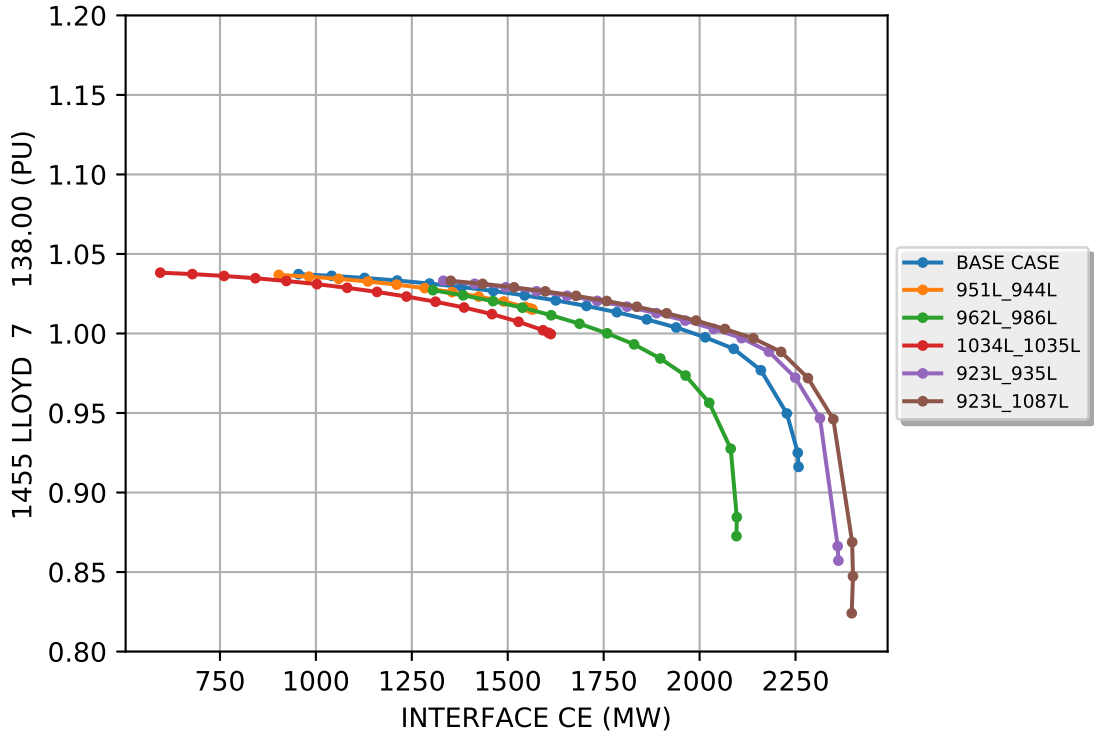


Figure: E-6-116

Case: M13, Option: BOTH2

Min Voltage: 0.81 PU, Min Margin: 42.3%

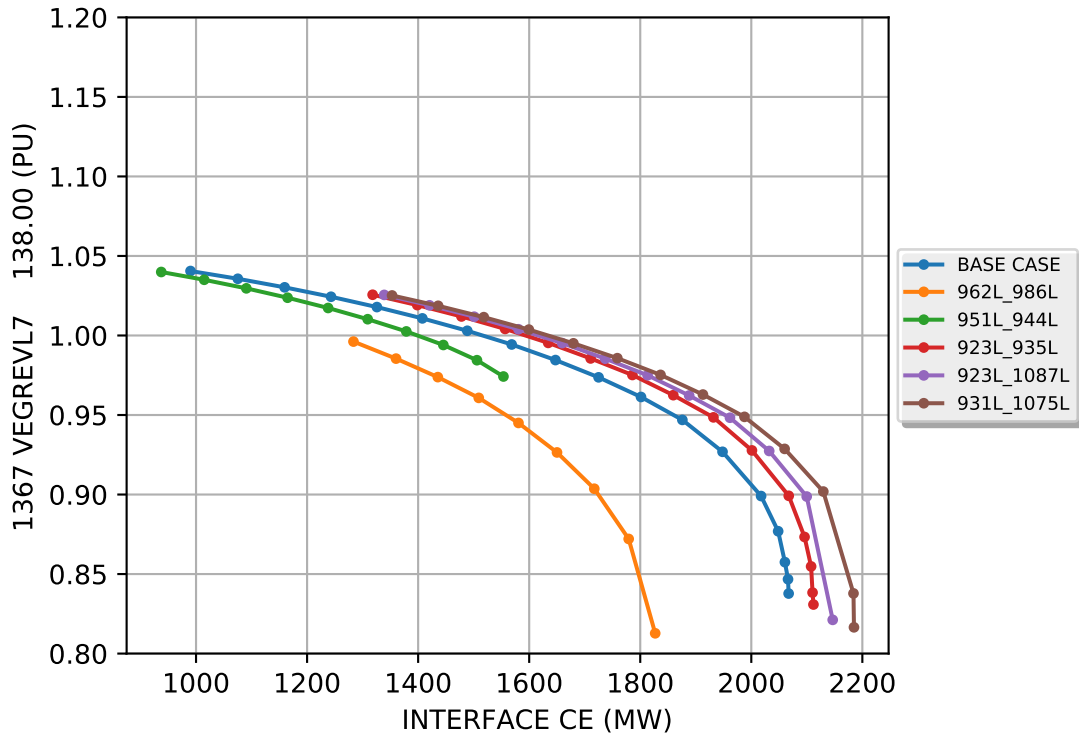


Figure: E-6-117

Case: M13, Option: BOTH2

Min Voltage: 0.83 PU, Min Margin: 42.3%

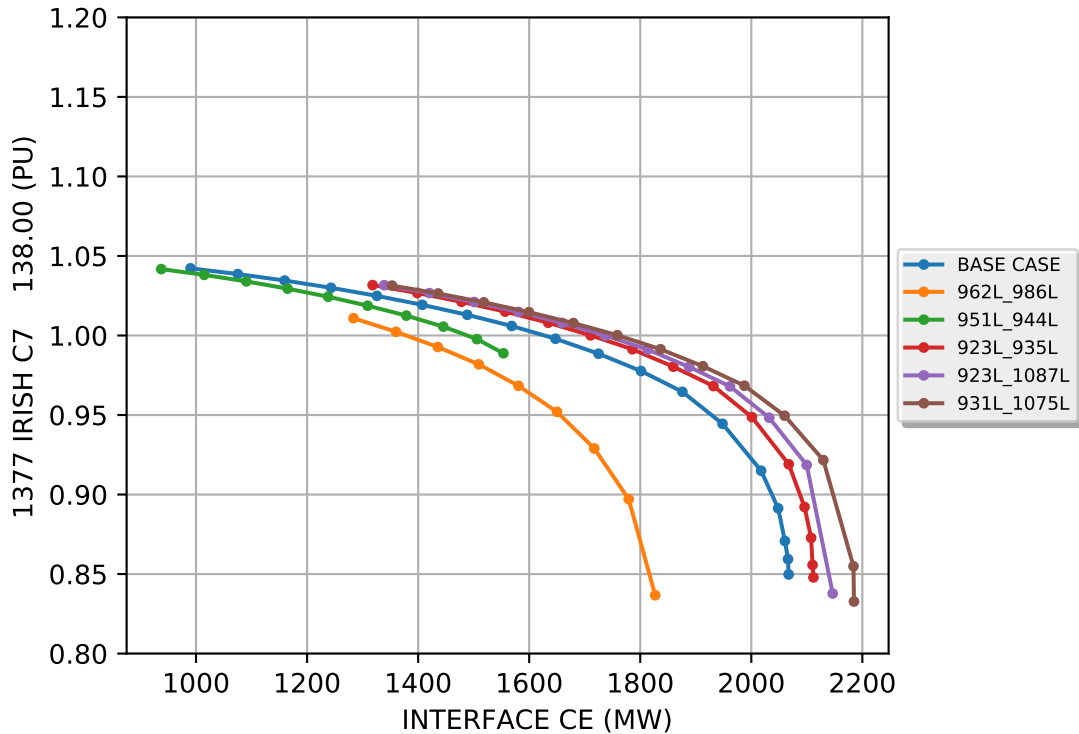


Figure: E-6-118

Case: M13, Option: BOTH2

Min Voltage: 0.84 PU, Min Margin: 42.3%

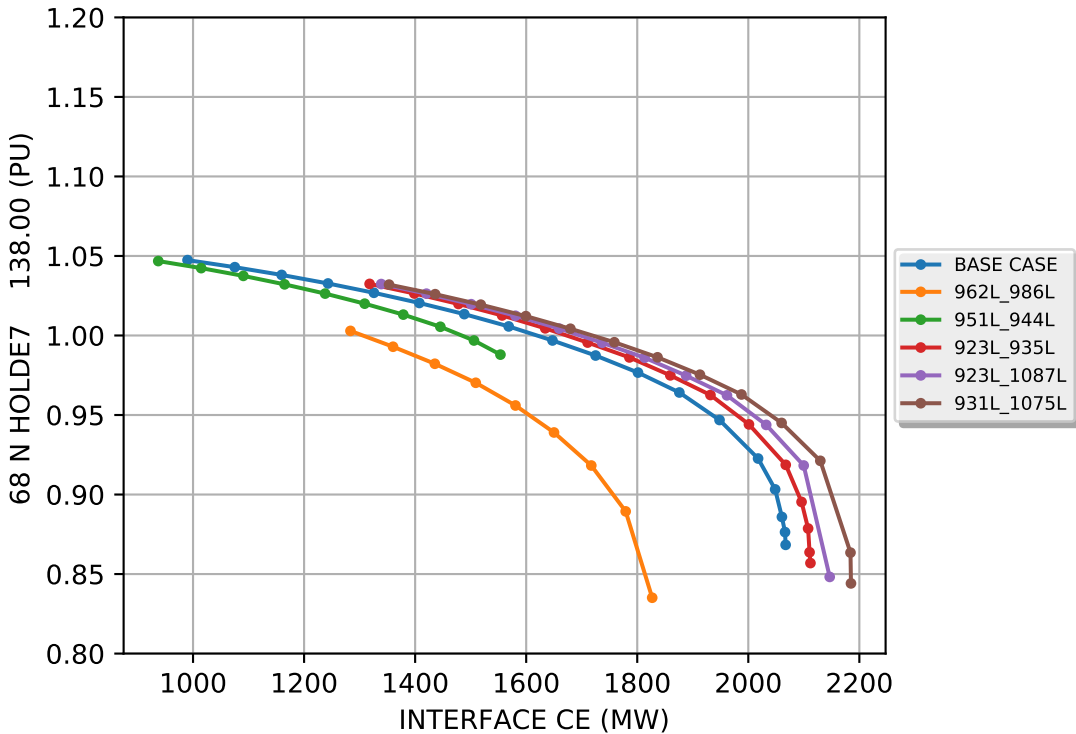


Figure: E-6-119

Case: M13, Option: BOTH2

Min Voltage: 0.87 PU, Min Margin: 42.3%

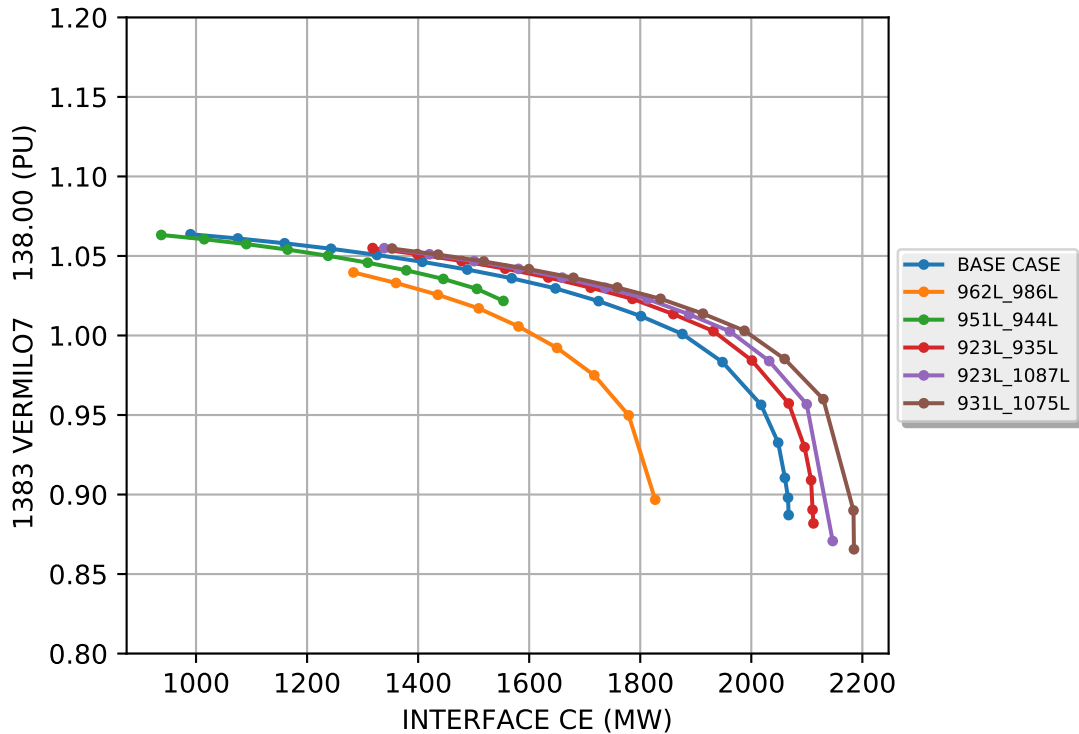


Figure: E-6-120

Case: M13, Option: BOTH2

Min Voltage: 0.85 PU, Min Margin: 42.3%

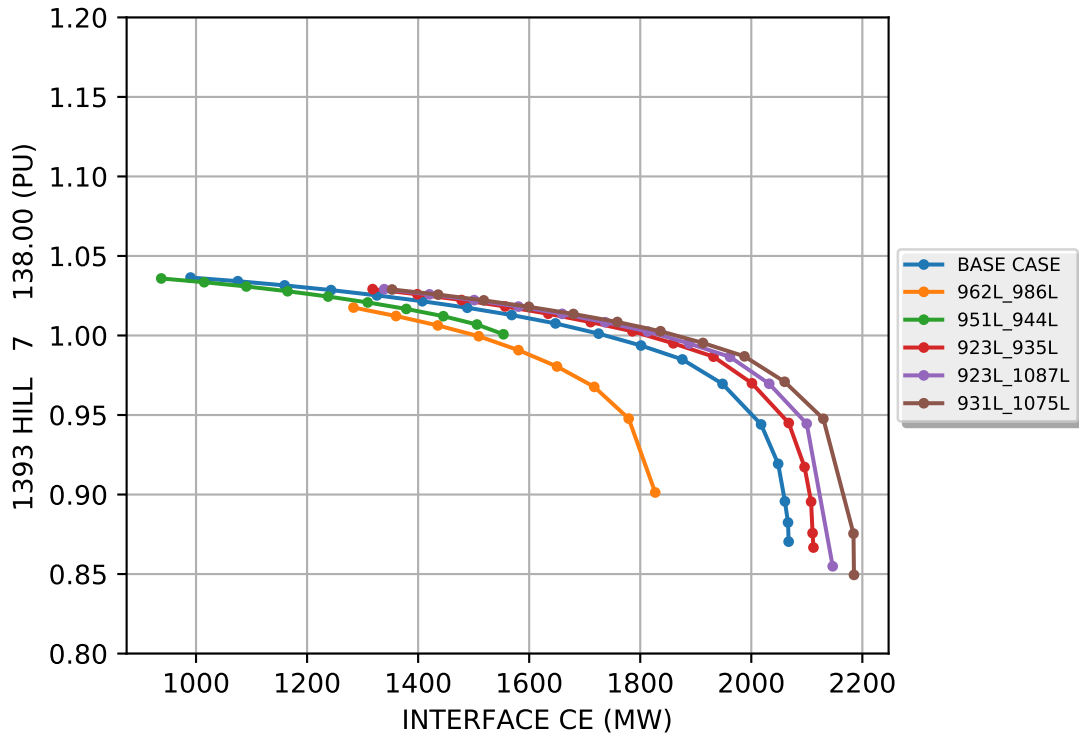


Figure: E-6-121

Case: M13, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 42.3%

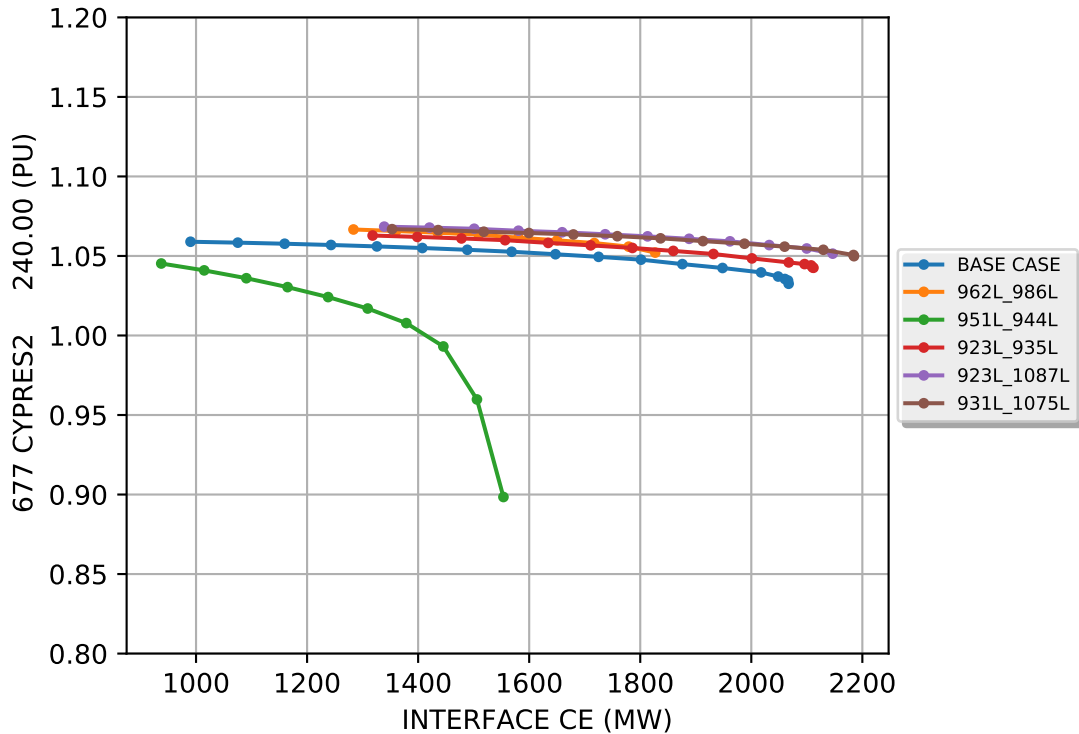


Figure: E-6-122

Case: M13, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 42.3%

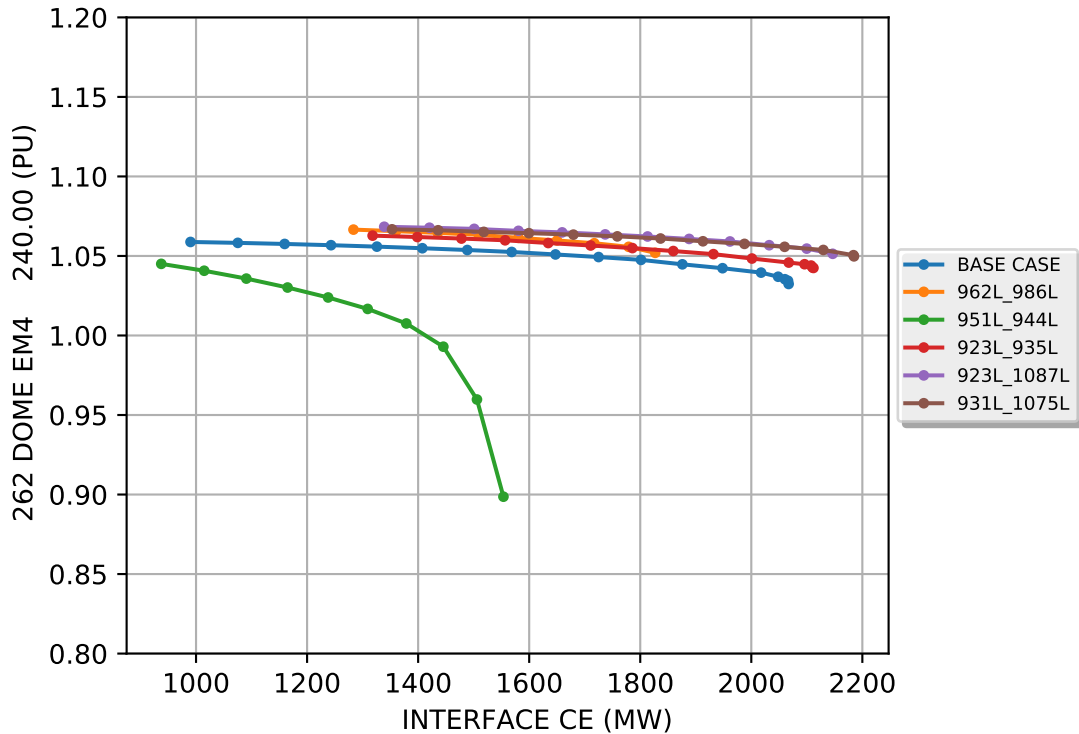


Figure: E-6-123

Case: M13, Option: BOTH2

Min Voltage: 0.94 PU, Min Margin: 42.3%

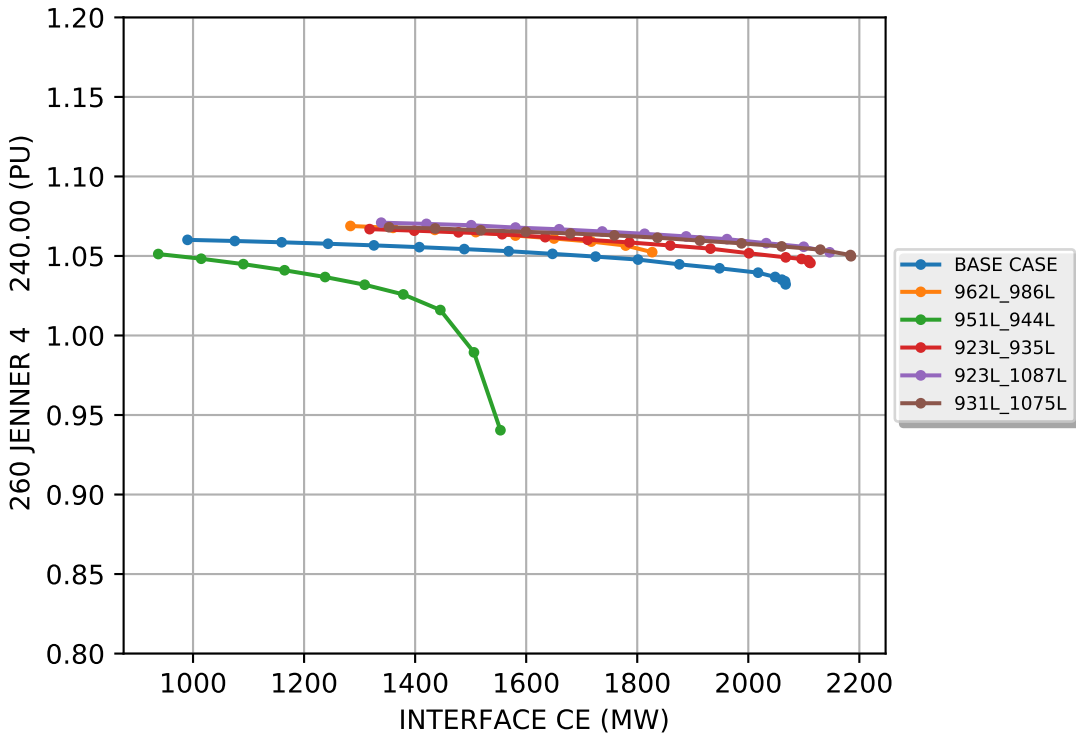


Figure: E-6-124

Case: M13, Option: BOTH2

Min Voltage: 0.96 PU, Min Margin: 42.3%

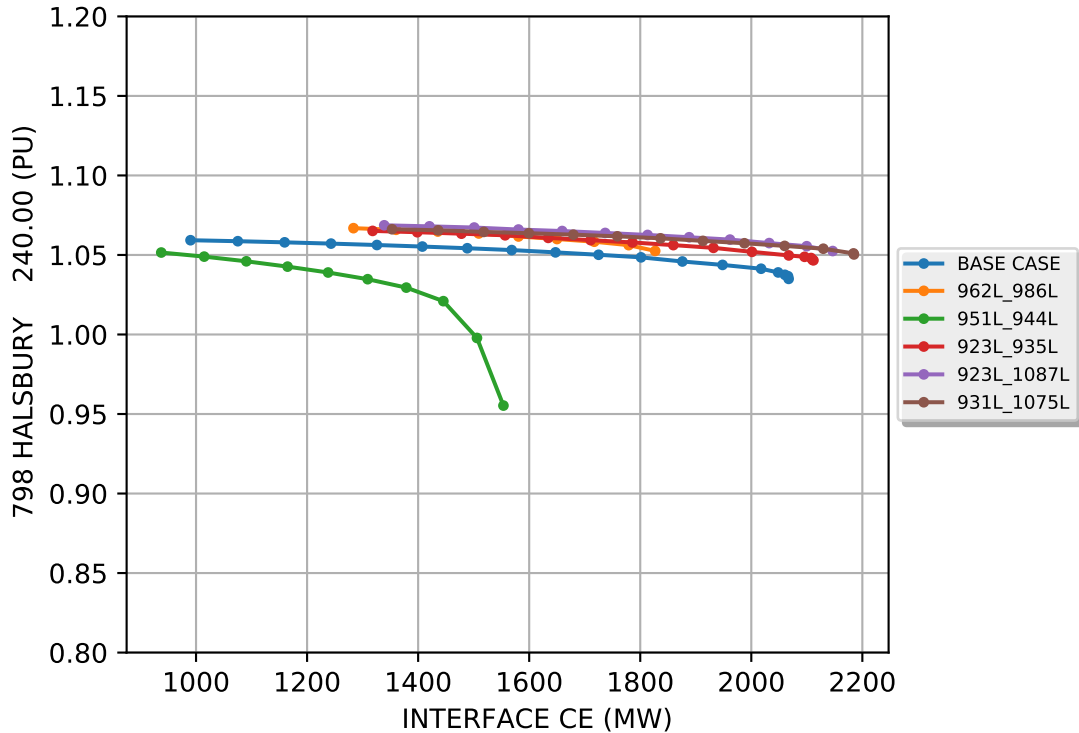


Figure: E-6-125

Case: M14, Option: BOTH2

Min Voltage: 0.80 PU, Min Margin: 57.6%

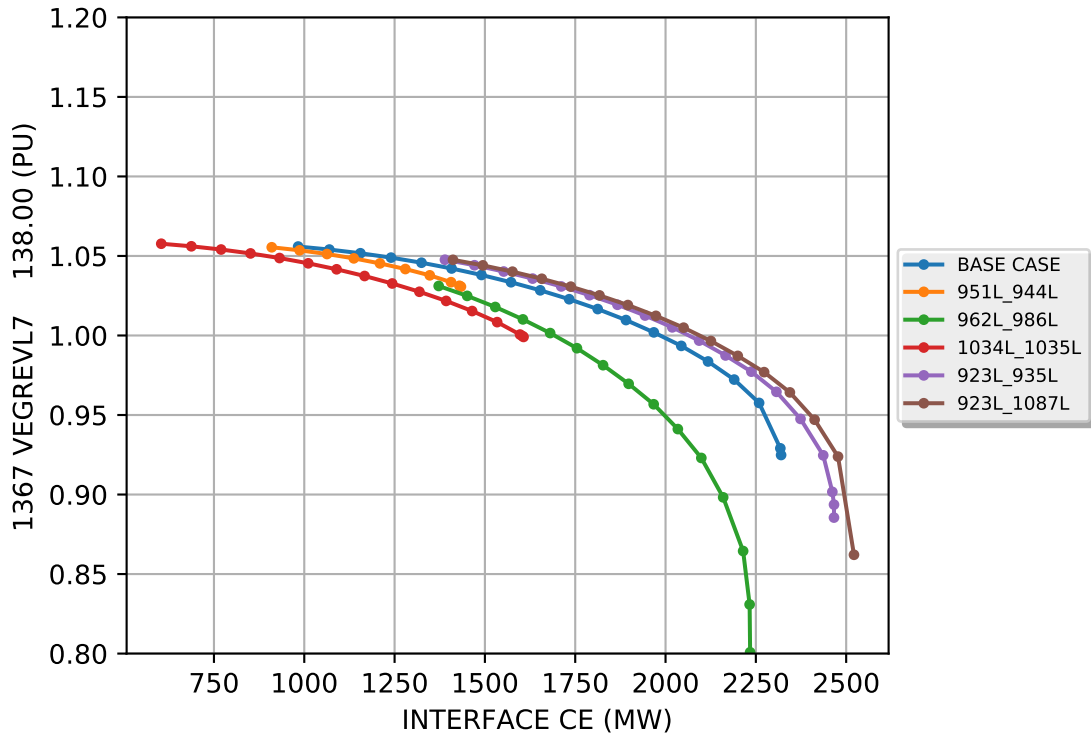


Figure: E-6-126

Case: M14, Option: BOTH2

Min Voltage: 0.82 PU, Min Margin: 57.6%

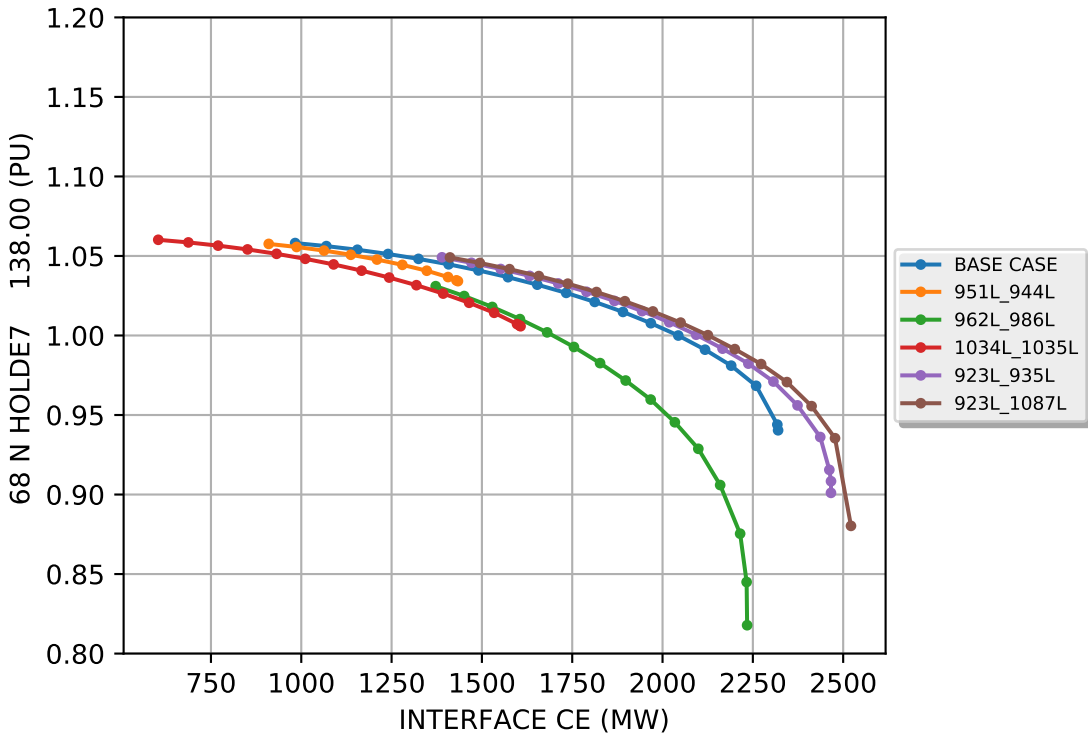


Figure: E-6-127

Case: M14, Option: BOTH2

Min Voltage: 0.83 PU, Min Margin: 57.6%

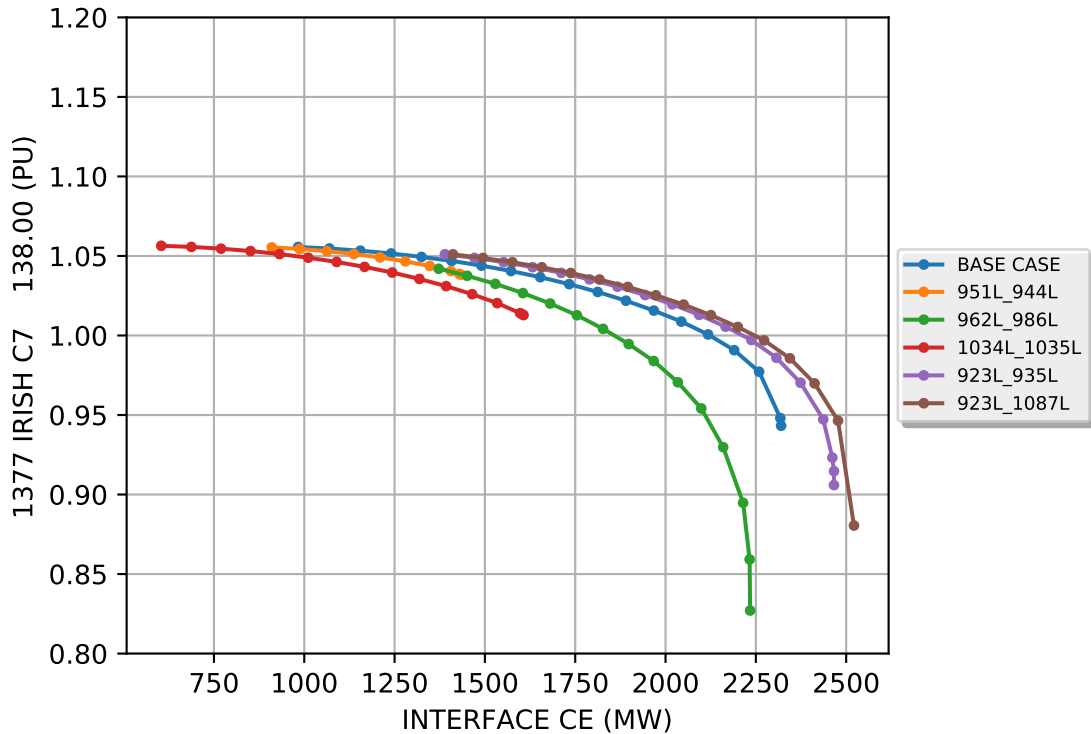


Figure: E-6-128

Case: M14, Option: BOTH2

Min Voltage: 0.84 PU, Min Margin: 57.6%

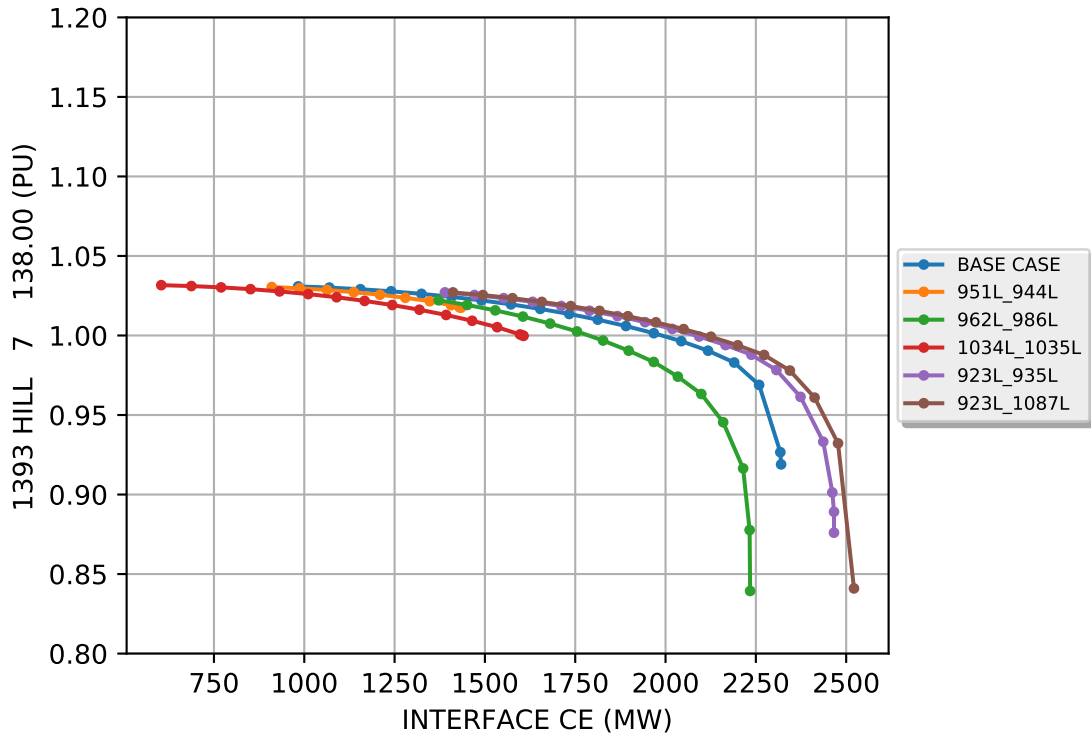


Figure: E-6-129

Case: M14, Option: BOTH2

Min Voltage: 0.84 PU, Min Margin: 57.6%

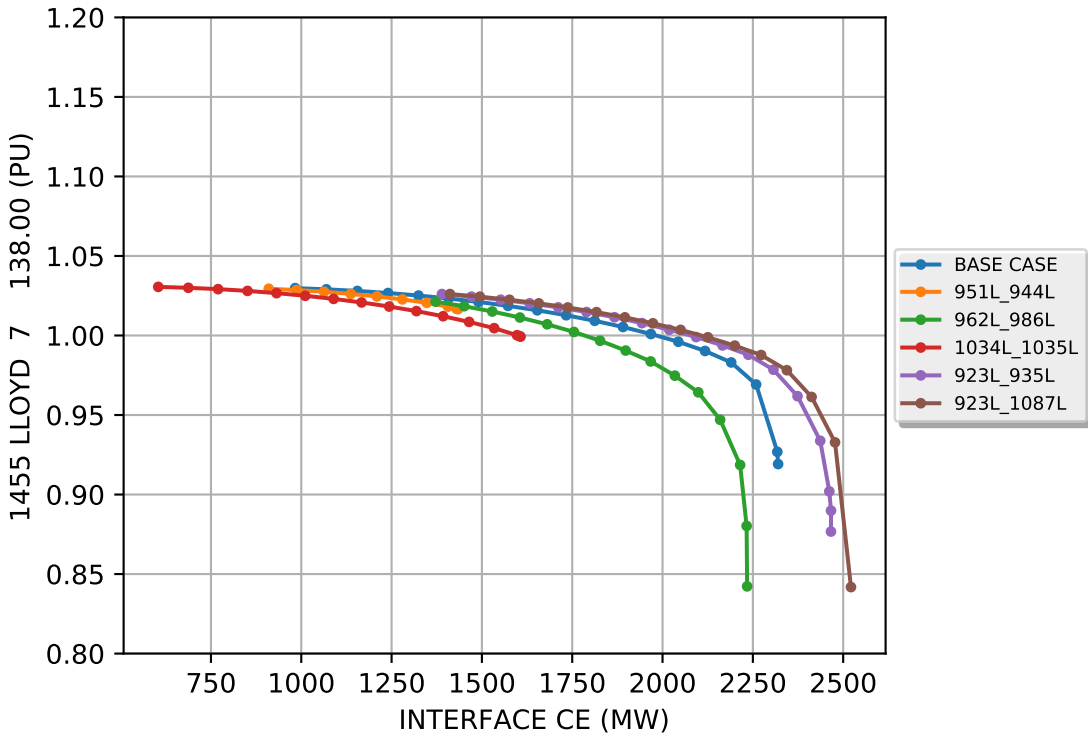


Figure: E-6-130

Case: M14, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 57.6%

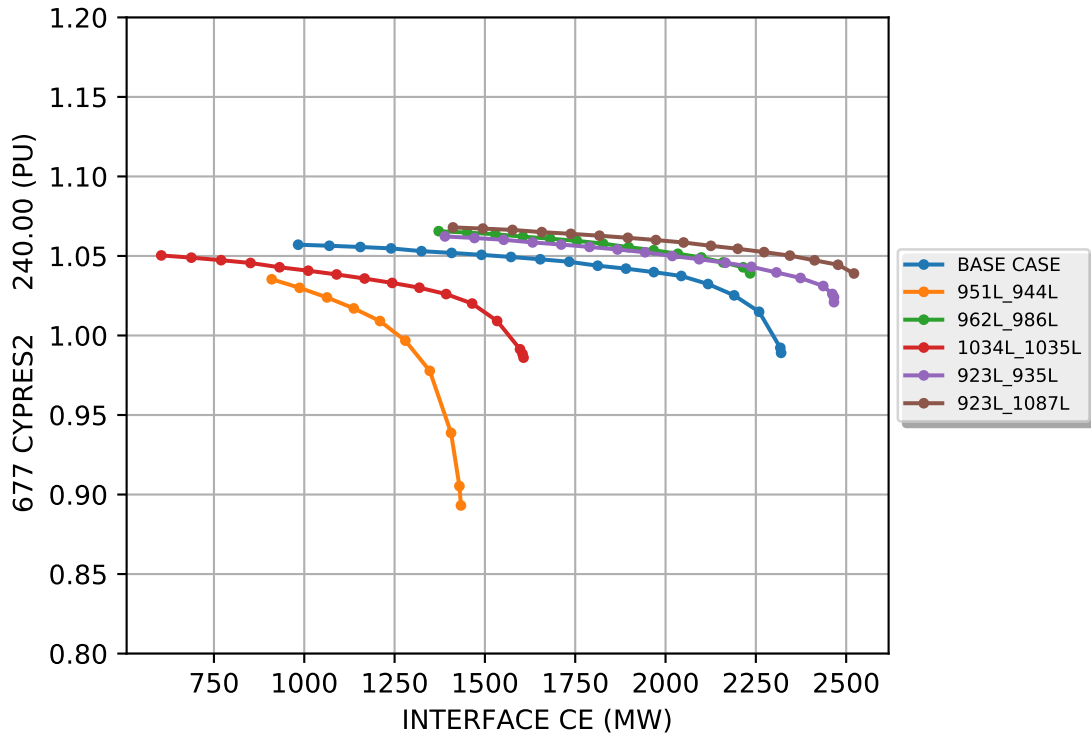


Figure: E-6-131

Case: M14, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 57.6%

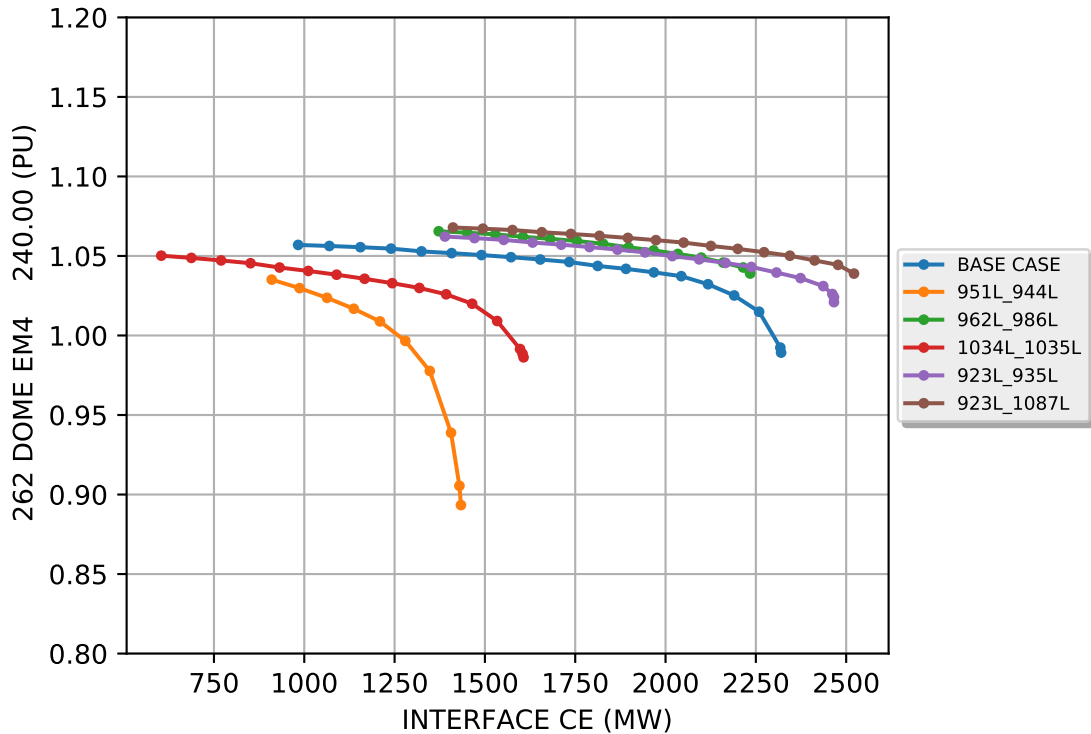


Figure: E-6-132

Case: M14, Option: BOTH2

Min Voltage: 0.94 PU, Min Margin: 57.6%

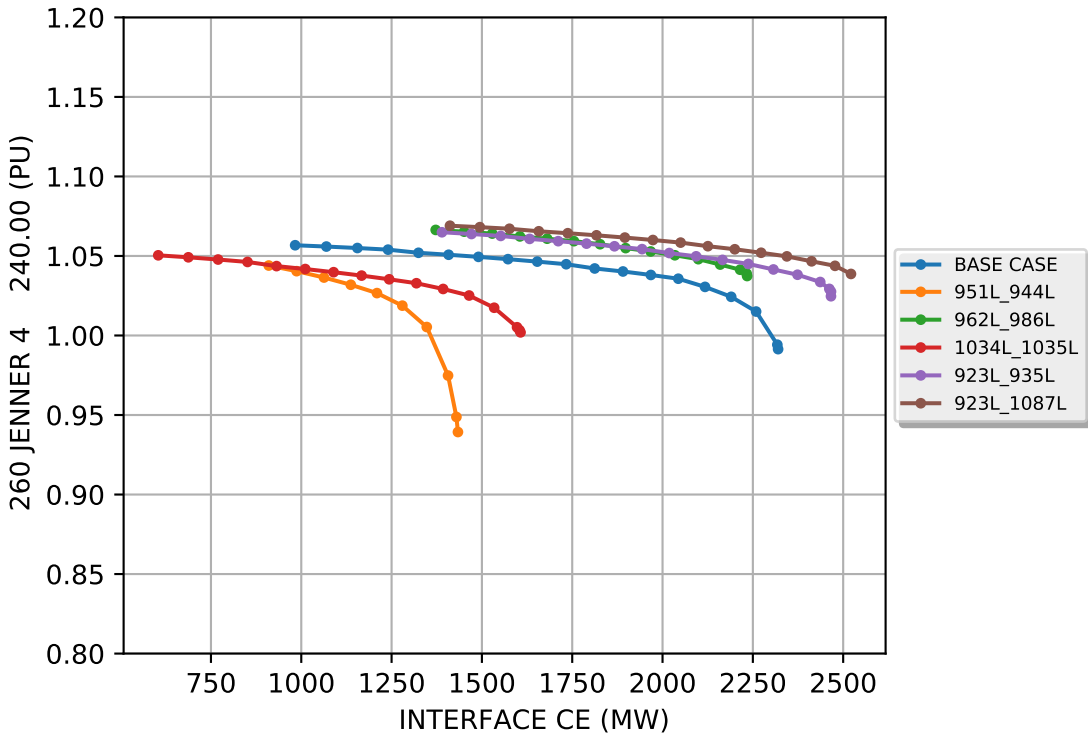


Figure: E-6-133

Case: M14, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 57.6%

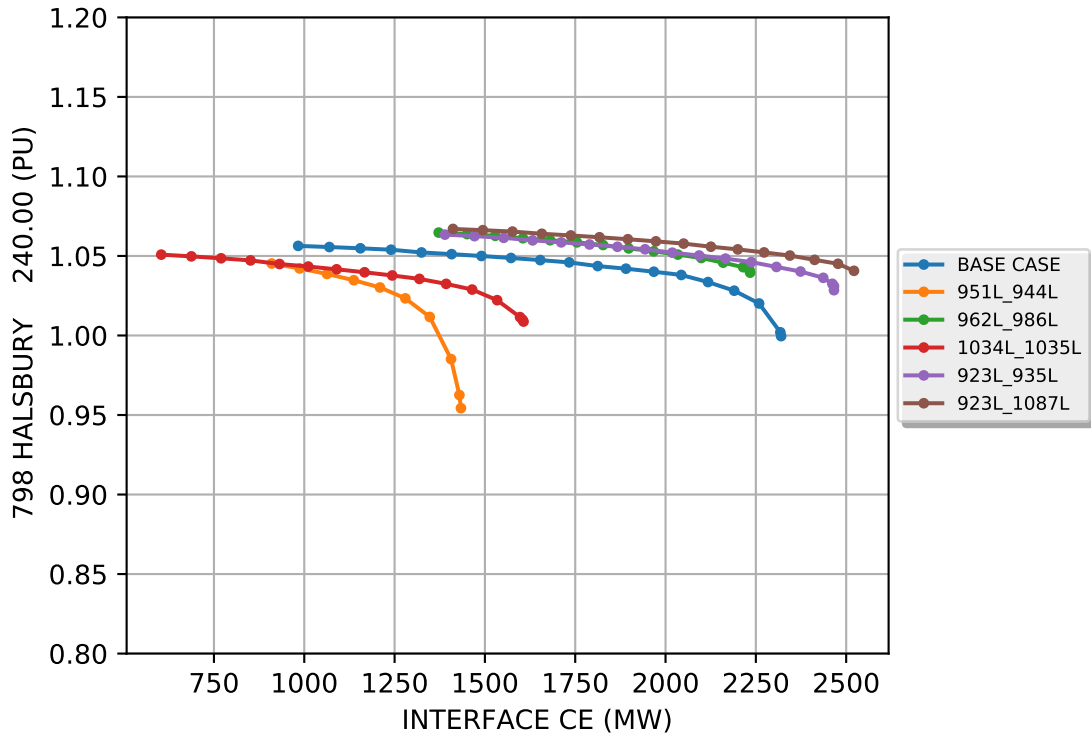


Figure: E-6-134

Case: M14, Option: BOTH2

Min Voltage: 0.91 PU, Min Margin: 57.6%

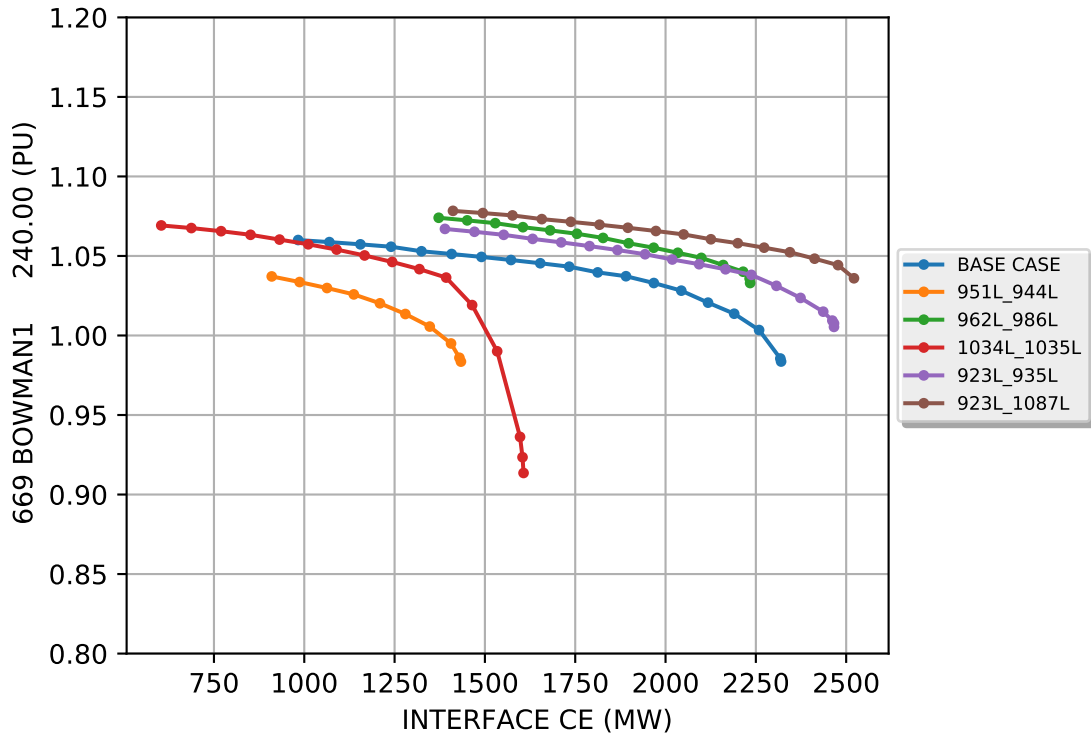


Figure: E-6-135

Case: M14, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 57.6%

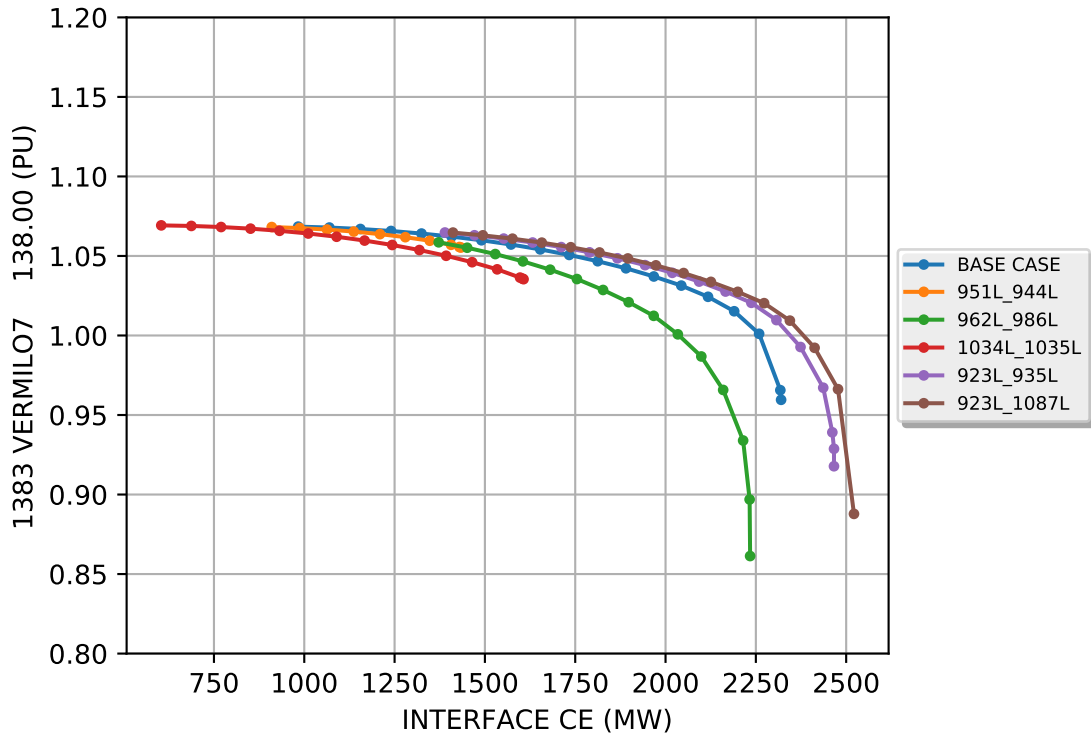


Figure: E-6-136

Case: H8, Option: BOTHC2

Min Voltage: 0.85 PU, Min Margin: 33.1%

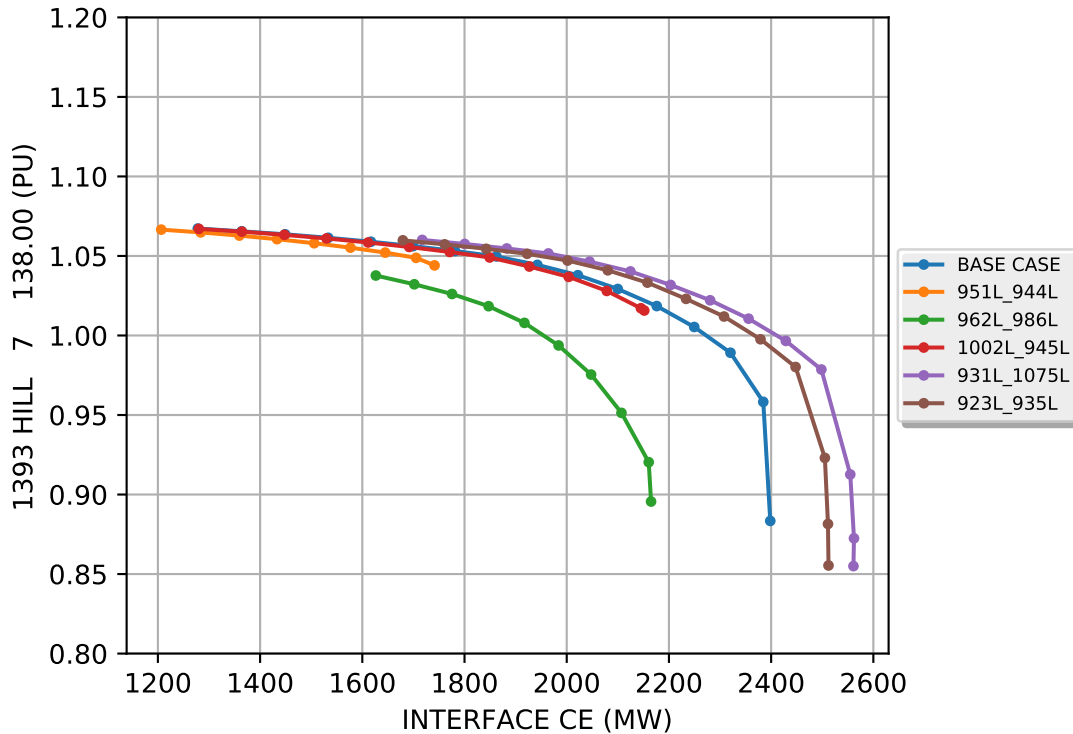


Figure: E-6-137

Case: H8, Option: BOTHC2

Min Voltage: 0.80 PU, Min Margin: 33.1%

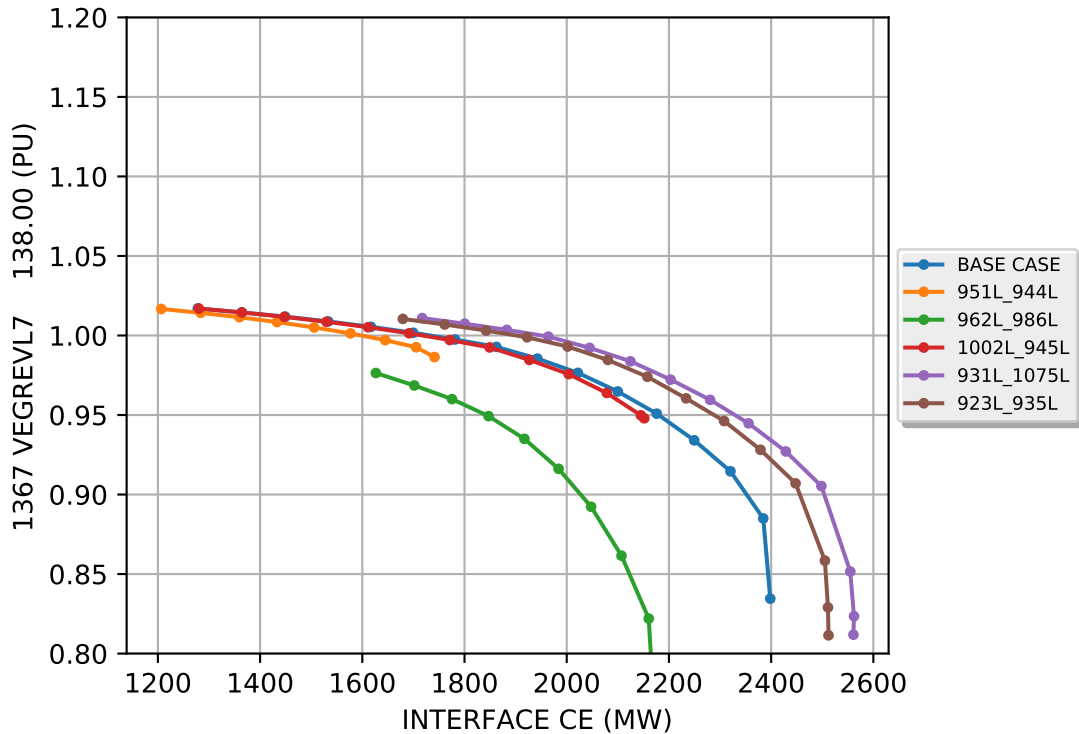


Figure: E-6-138

Case: H8, Option: BOTHC2

Min Voltage: 0.85 PU, Min Margin: 33.1%

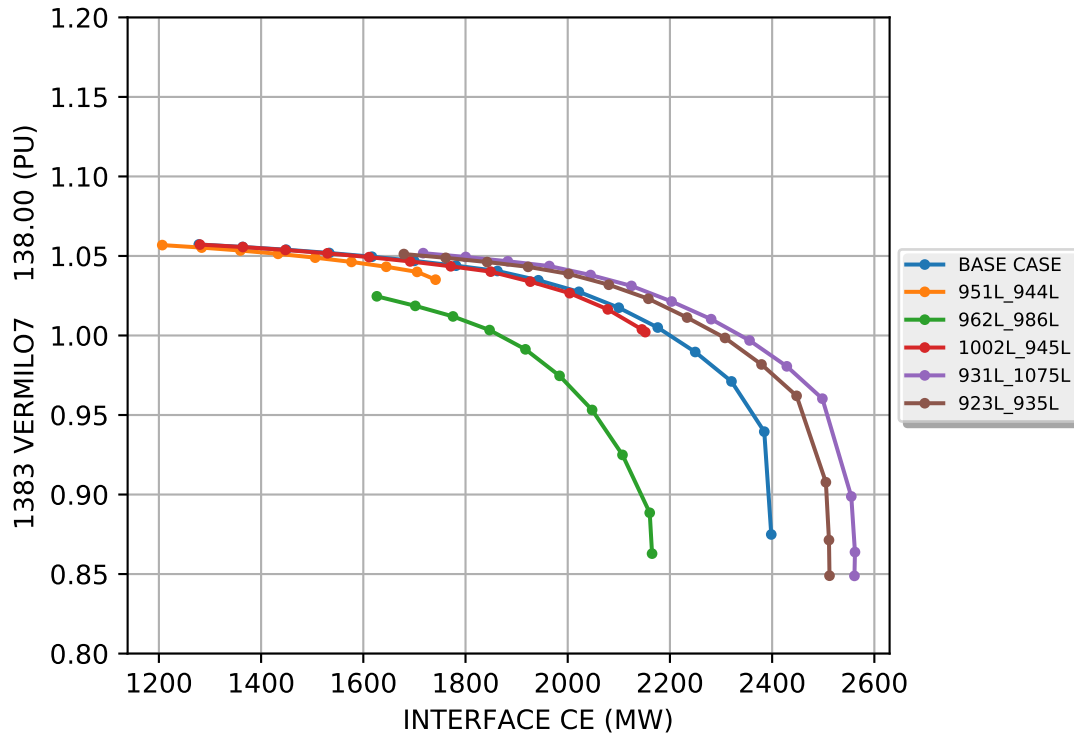


Figure: E-6-139

Case: H8, Option: BOTHC2

Min Voltage: 0.86 PU, Min Margin: 33.1%

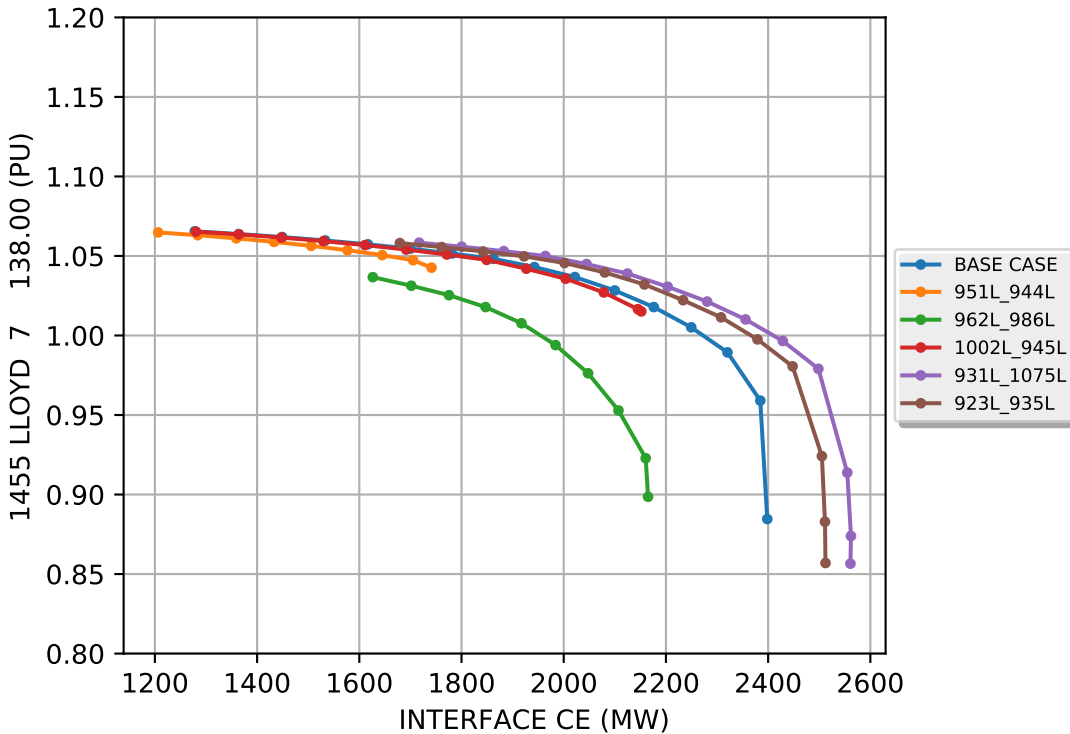


Figure: E-6-140

Case: H8, Option: BOTHC2

Min Voltage: 0.85 PU, Min Margin: 33.1%

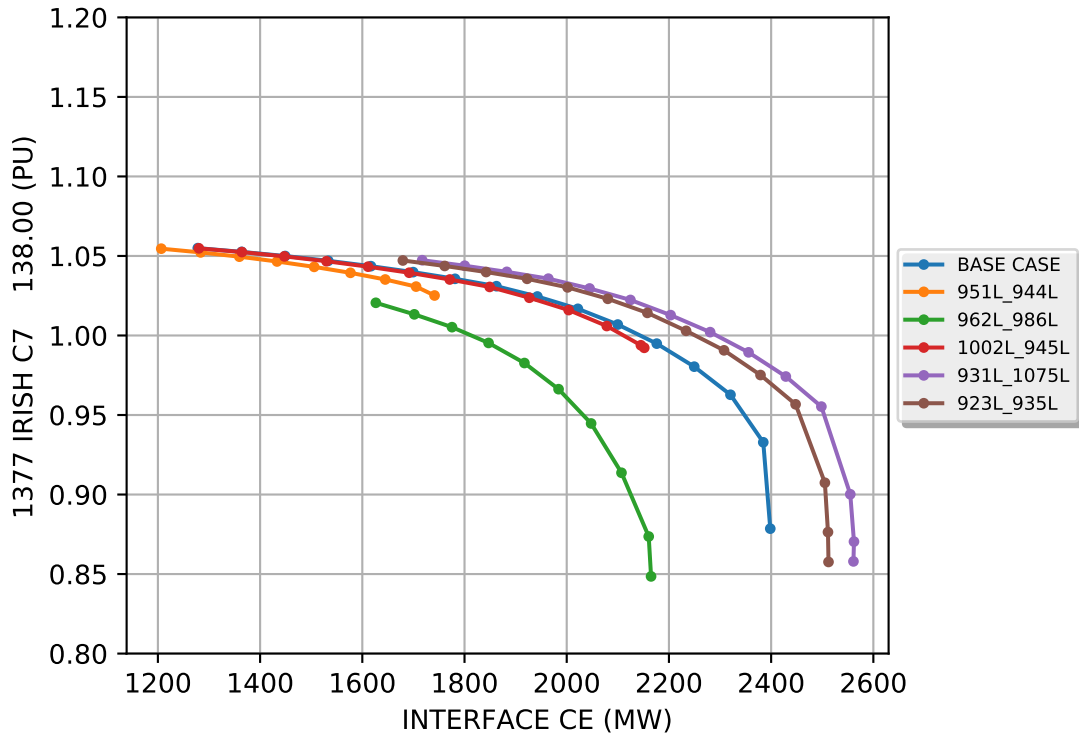


Figure: E-6-141

Case: H8, Option: BOTHC2

Min Voltage: 0.89 PU, Min Margin: 33.1%

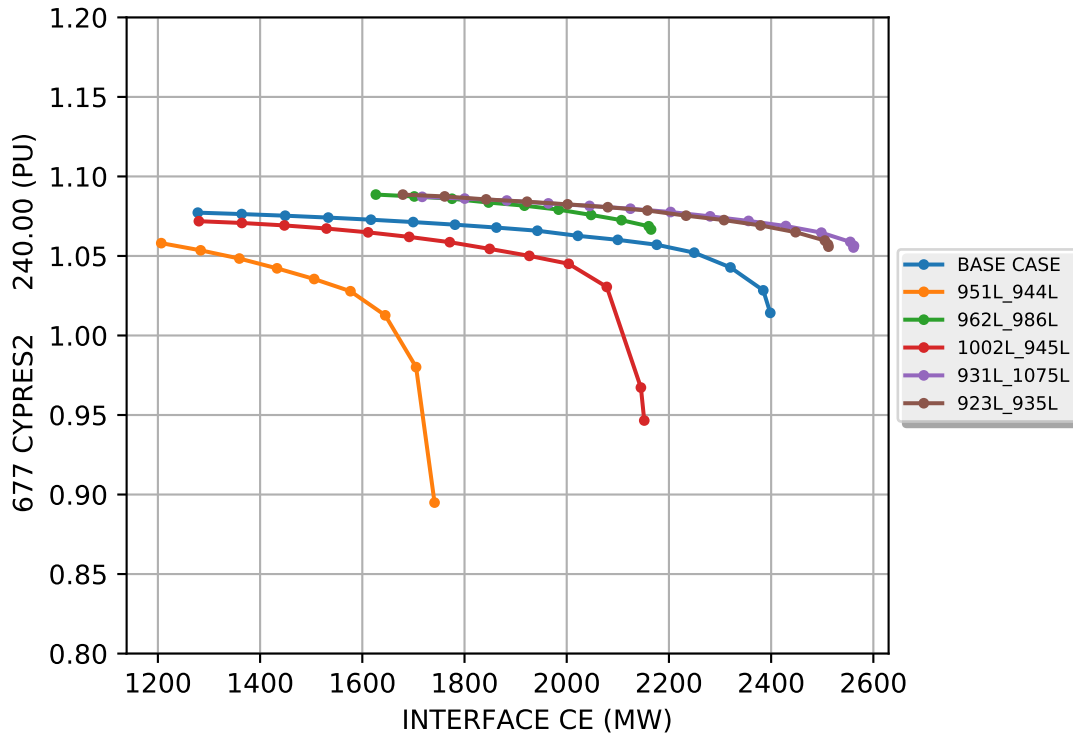


Figure: E-6-142

Case: H8, Option: BOTHC2

Min Voltage: 0.90 PU, Min Margin: 33.1%

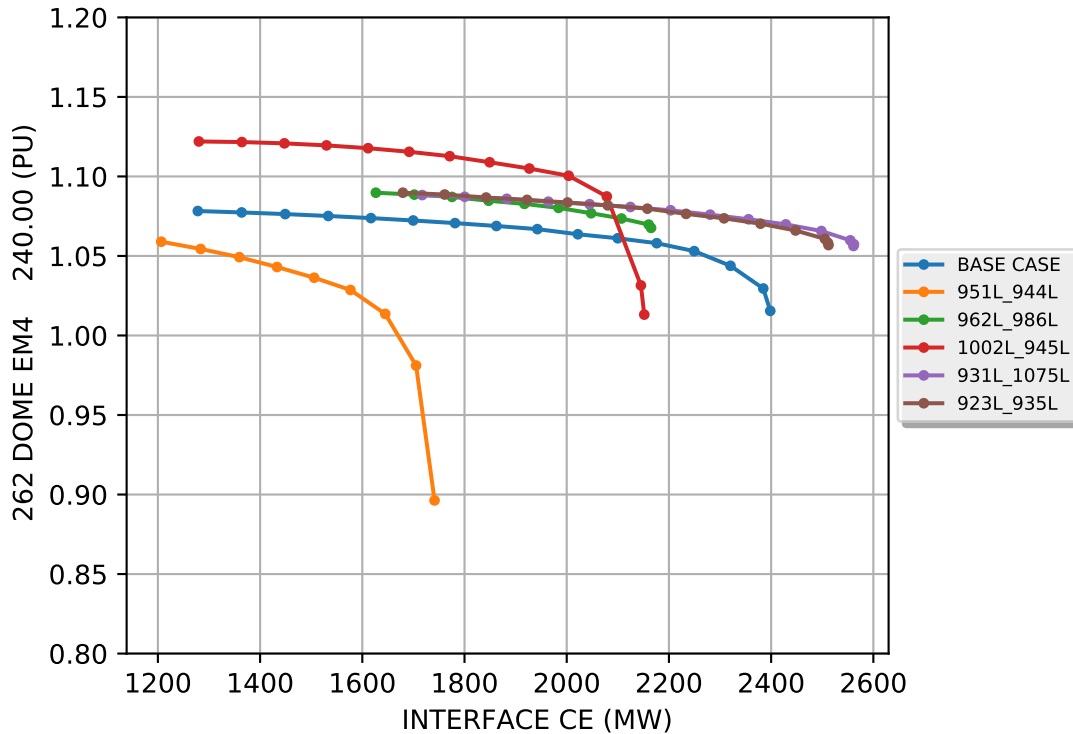


Figure: E-6-143

Case: H8, Option: BOTHC2

Min Voltage: 0.94 PU, Min Margin: 33.1%

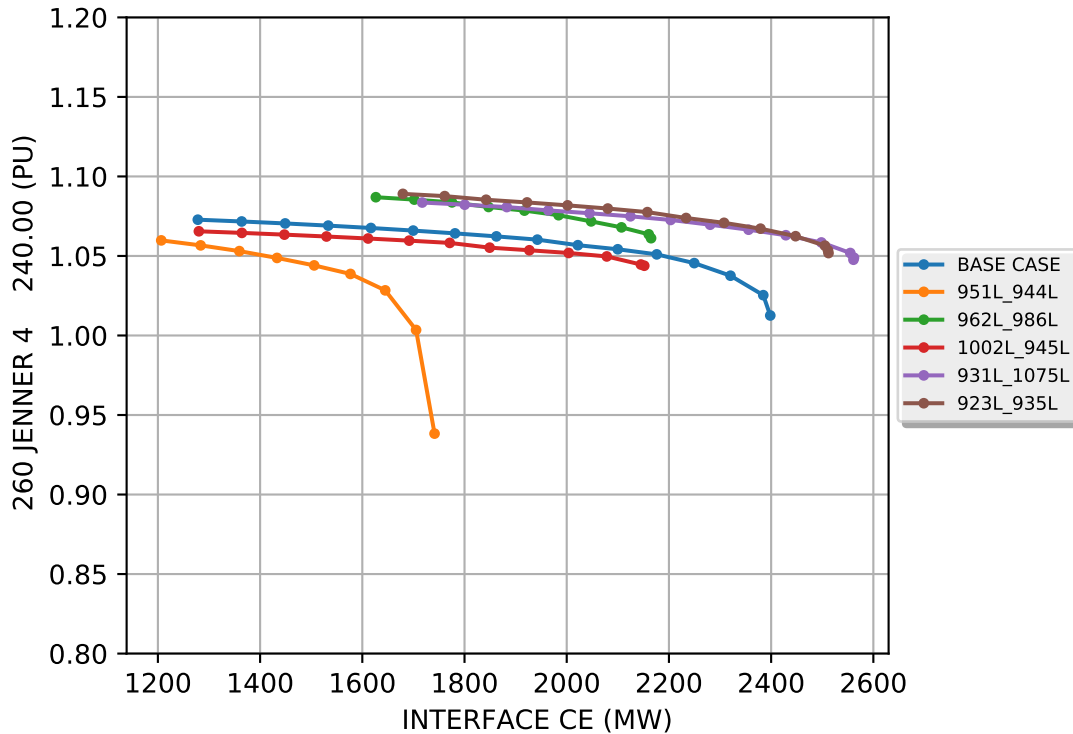


Figure: E-6-144

Case: H8, Option: BOTHC2

Min Voltage: 0.95 PU, Min Margin: 33.1%

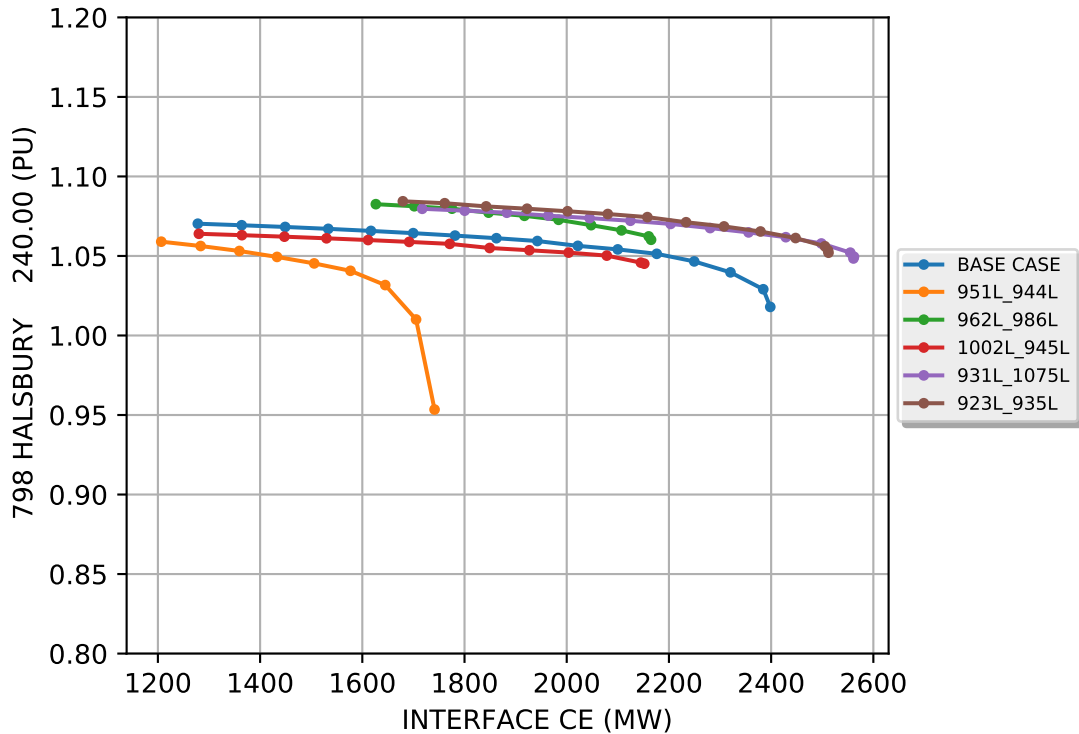


Figure: E-6-145

Case: H8, Option: BOTHC2

Min Voltage: 0.99 PU, Min Margin: 33.1%

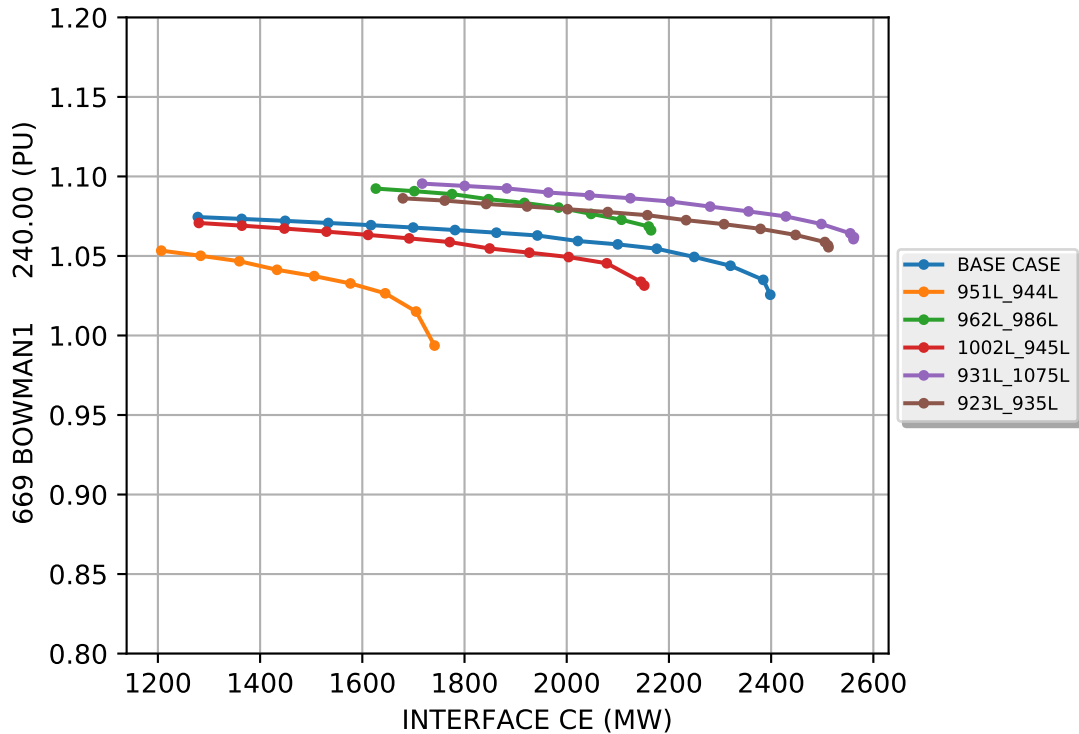


Figure: E-6-146

Case: H8, Option: BOTHC2

Min Voltage: 0.82 PU, Min Margin: 33.1%

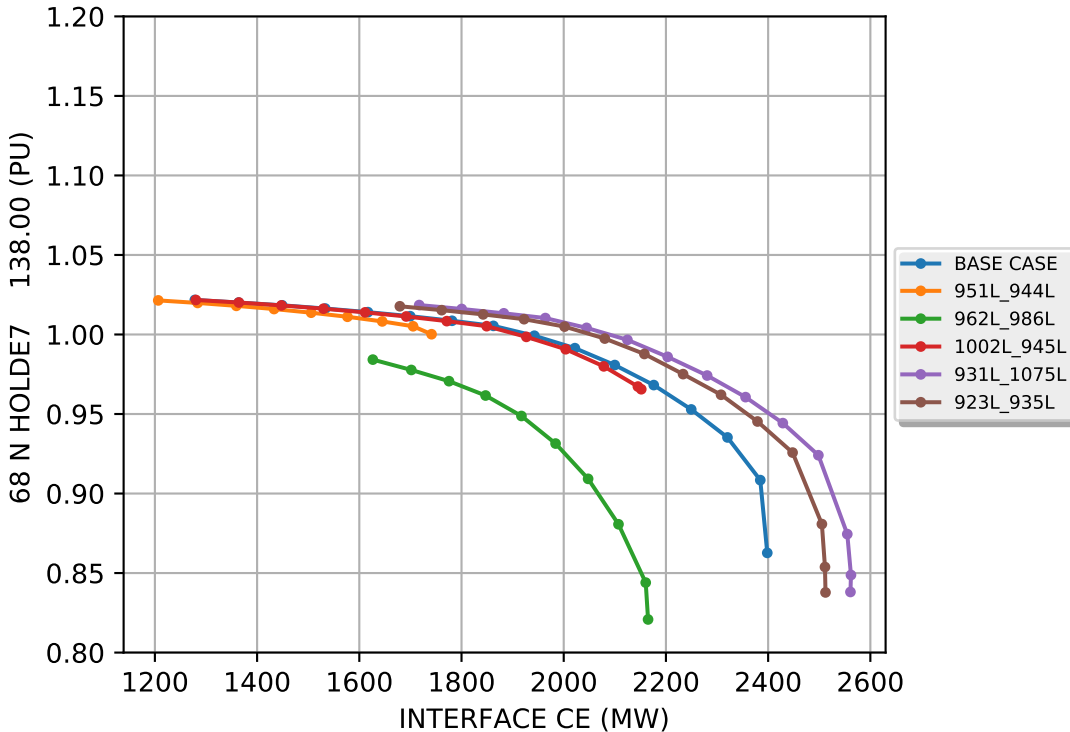


Figure: E-6-147

Case: M10, Option: BOTH2

Min Voltage: 0.85 PU, Min Margin: 74.7%

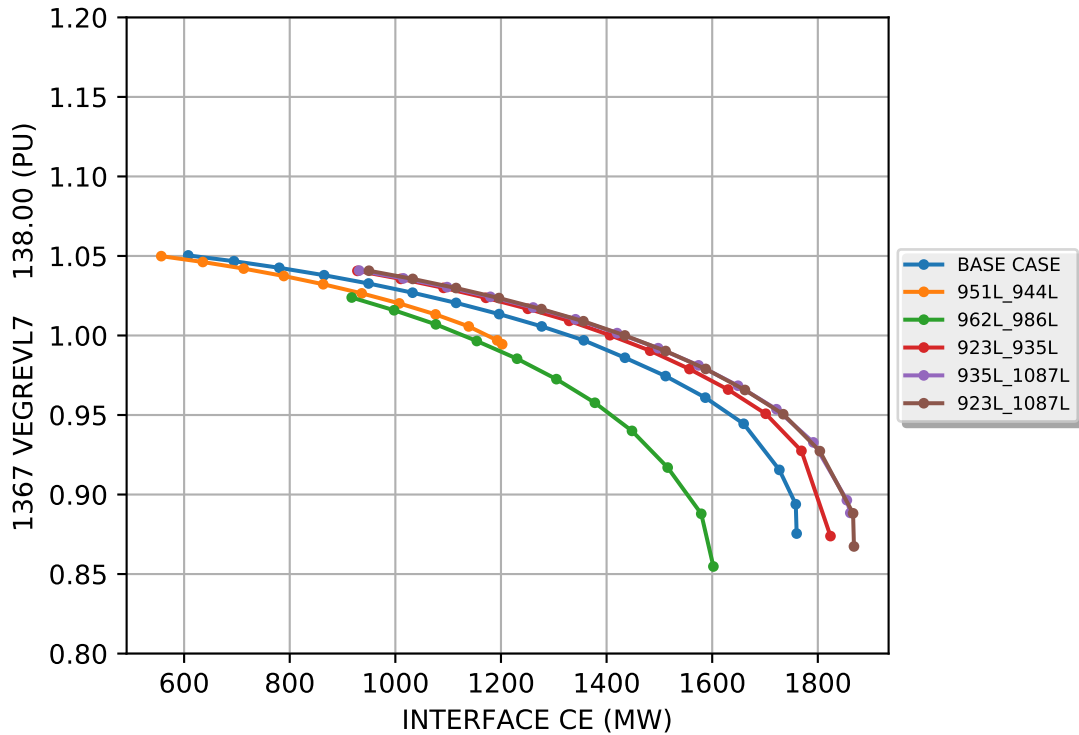


Figure: E-6-148

Case: M10, Option: BOTH2

Min Voltage: 0.87 PU, Min Margin: 74.7%

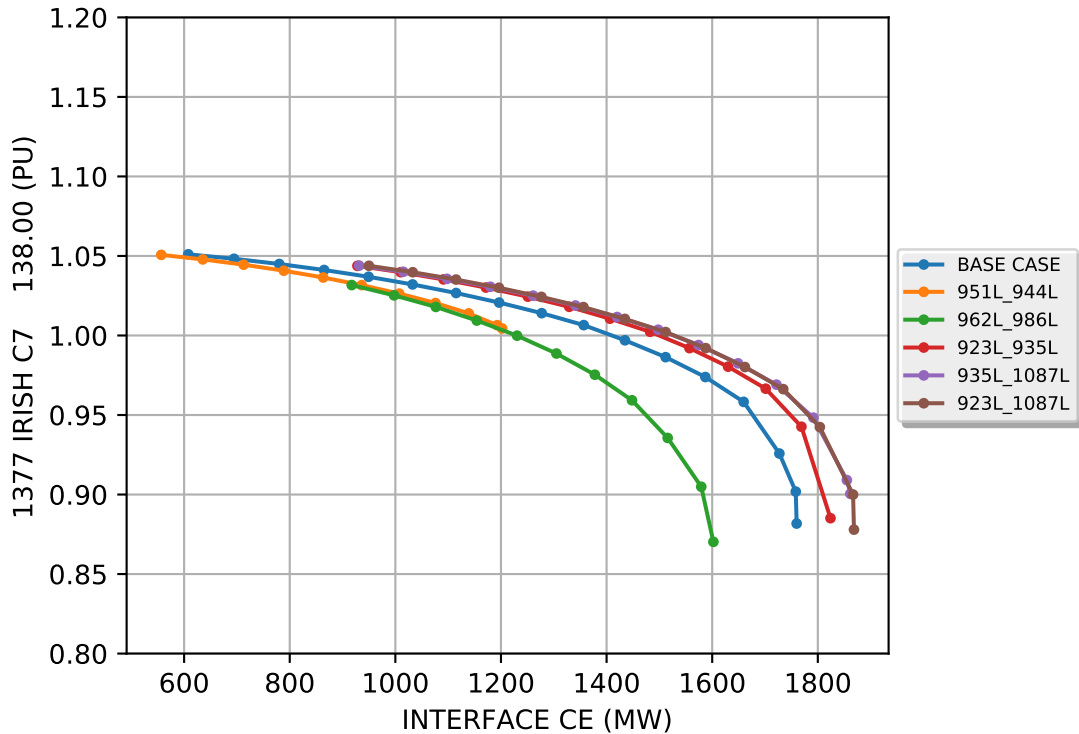


Figure: E-6-149

Case: M10, Option: BOTH2

Min Voltage: 0.87 PU, Min Margin: 74.7%

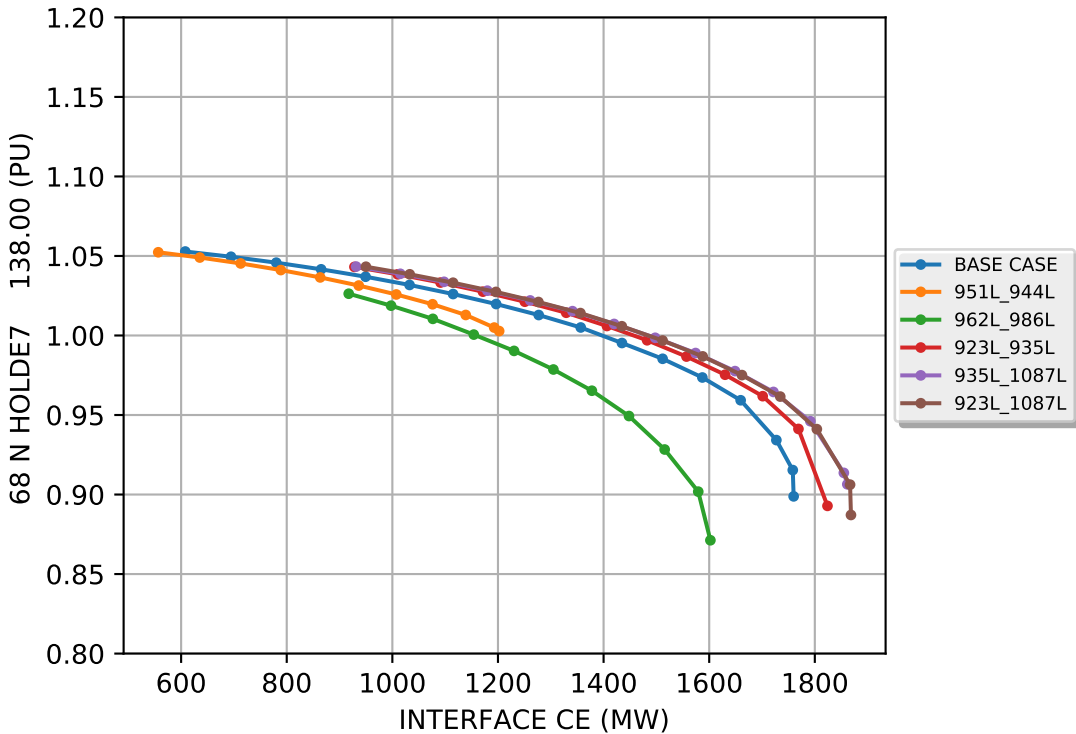


Figure: E-6-150

Case: M10, Option: BOTH2

Min Voltage: 0.92 PU, Min Margin: 74.7%

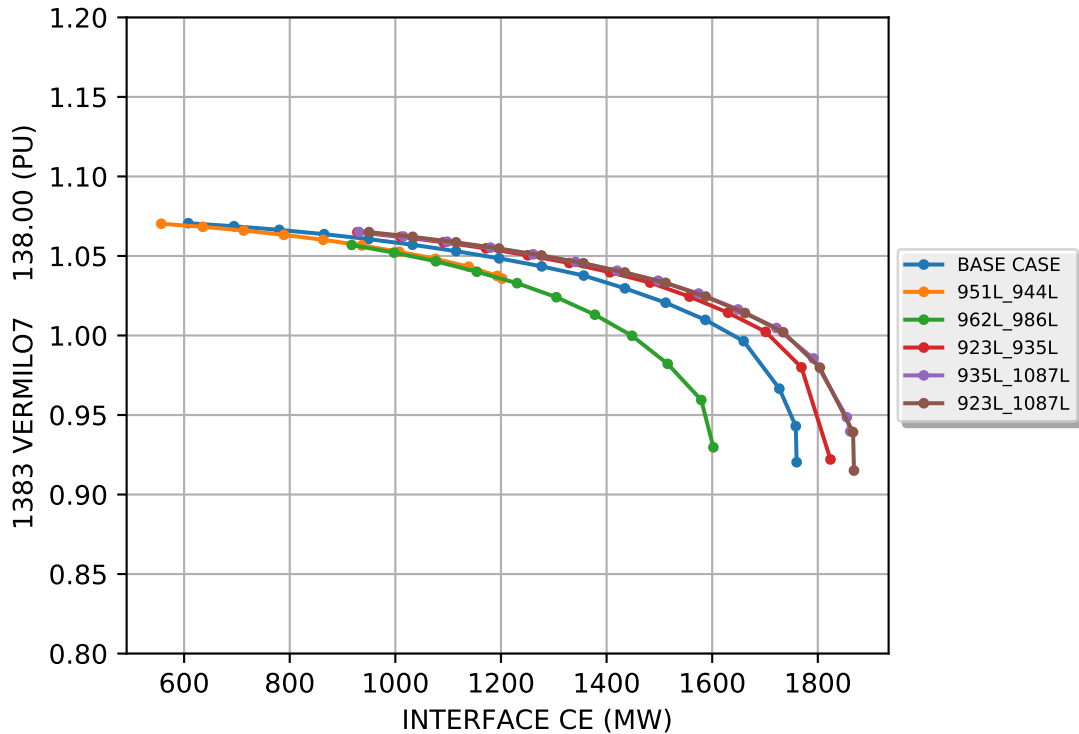


Figure: E-6-151

Case: M10, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 74.7%

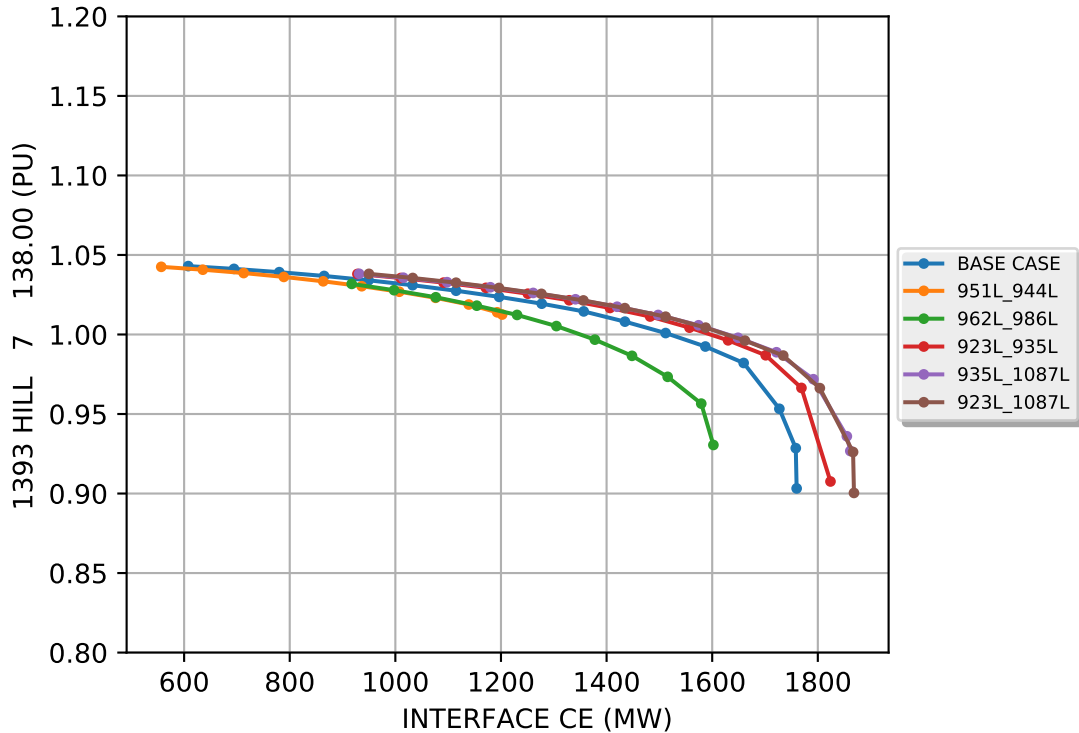


Figure: E-6-152

Case: M10, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 74.7%

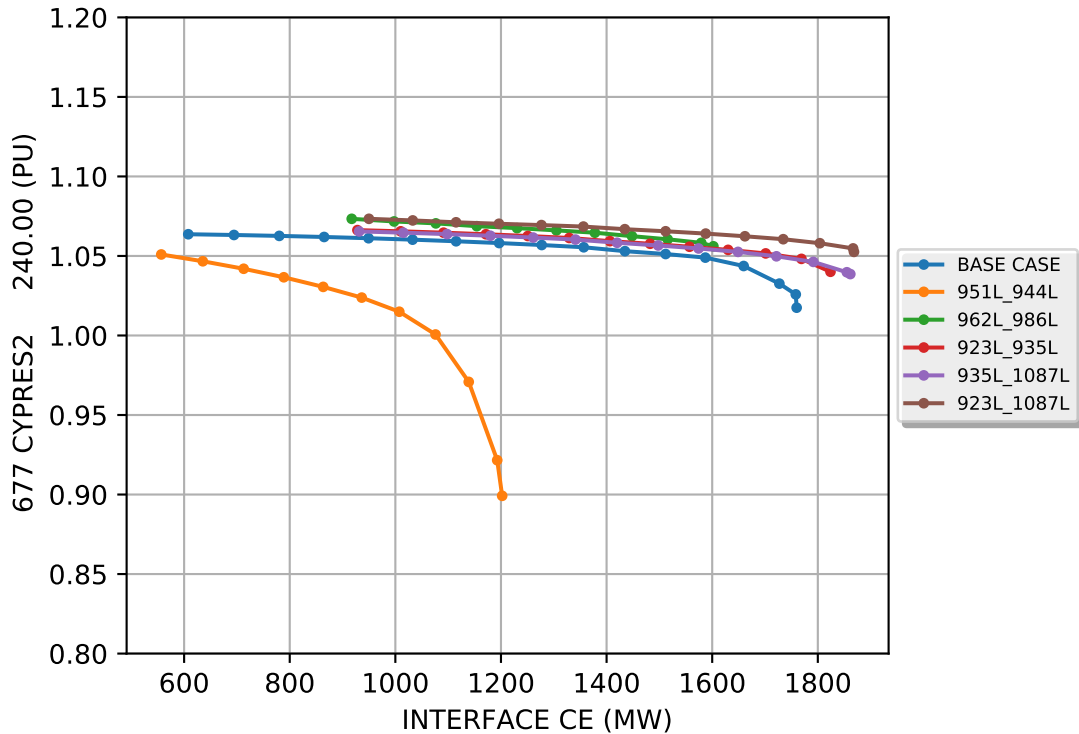


Figure: E-6-153

Case: M10, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 74.7%

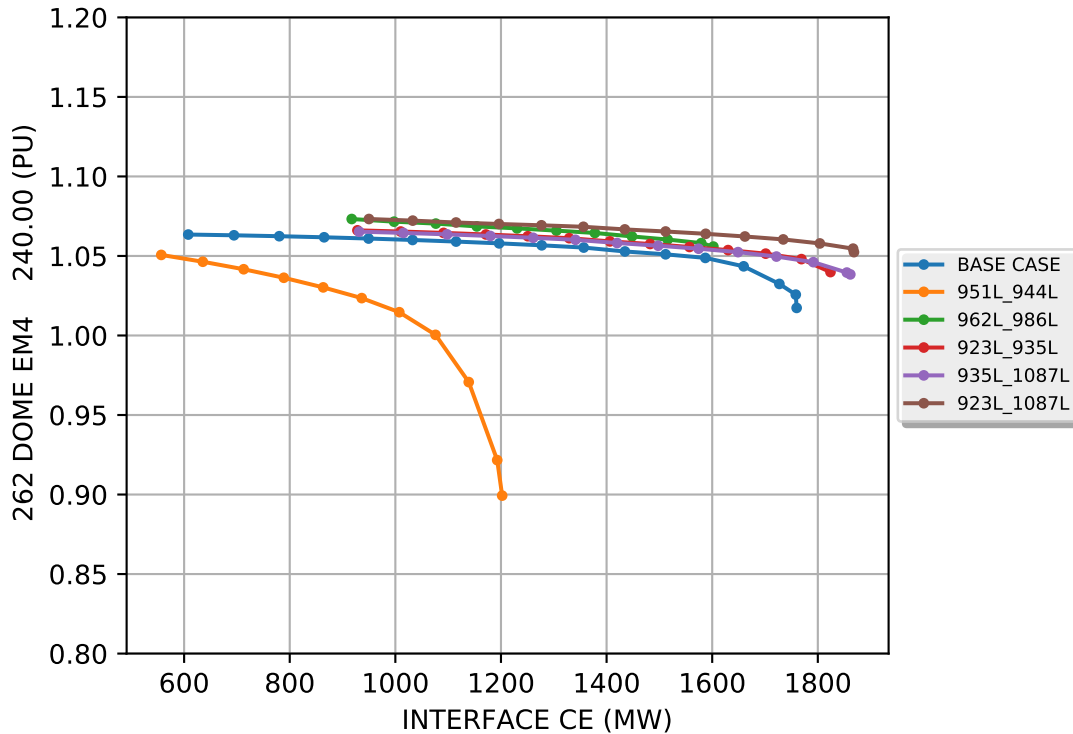


Figure: E-6-154

Case: M10, Option: BOTH2

Min Voltage: 0.94 PU, Min Margin: 74.7%

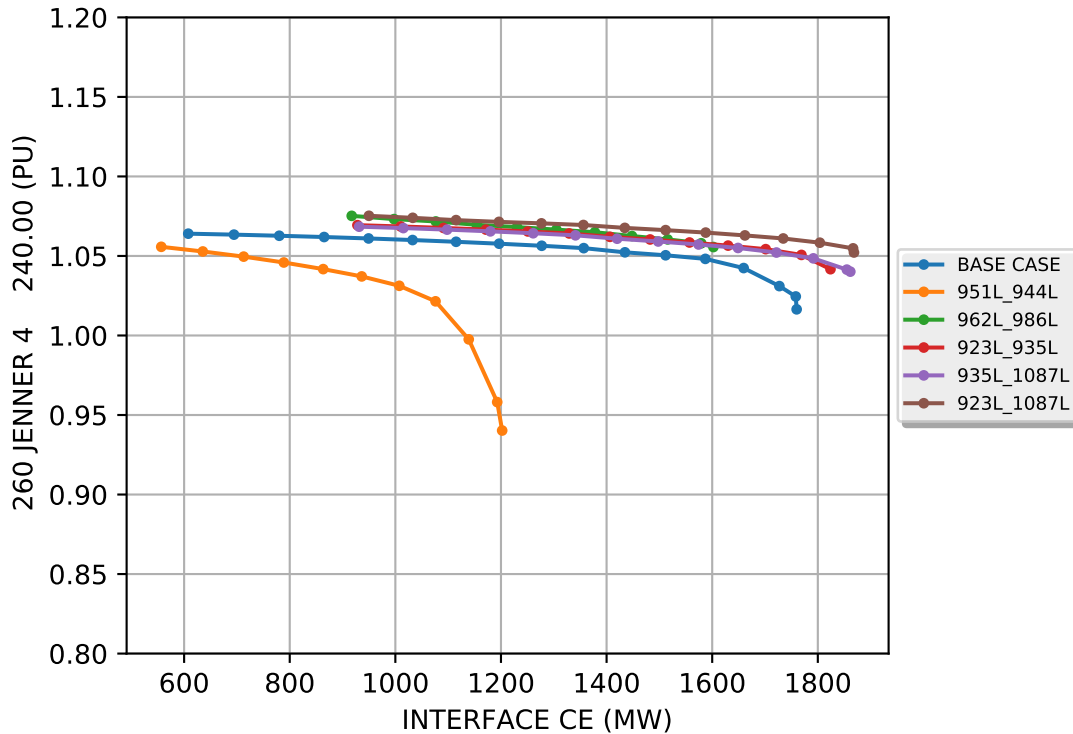


Figure: E-6-155

Case: M10, Option: BOTH2

Min Voltage: 0.96 PU, Min Margin: 74.7%

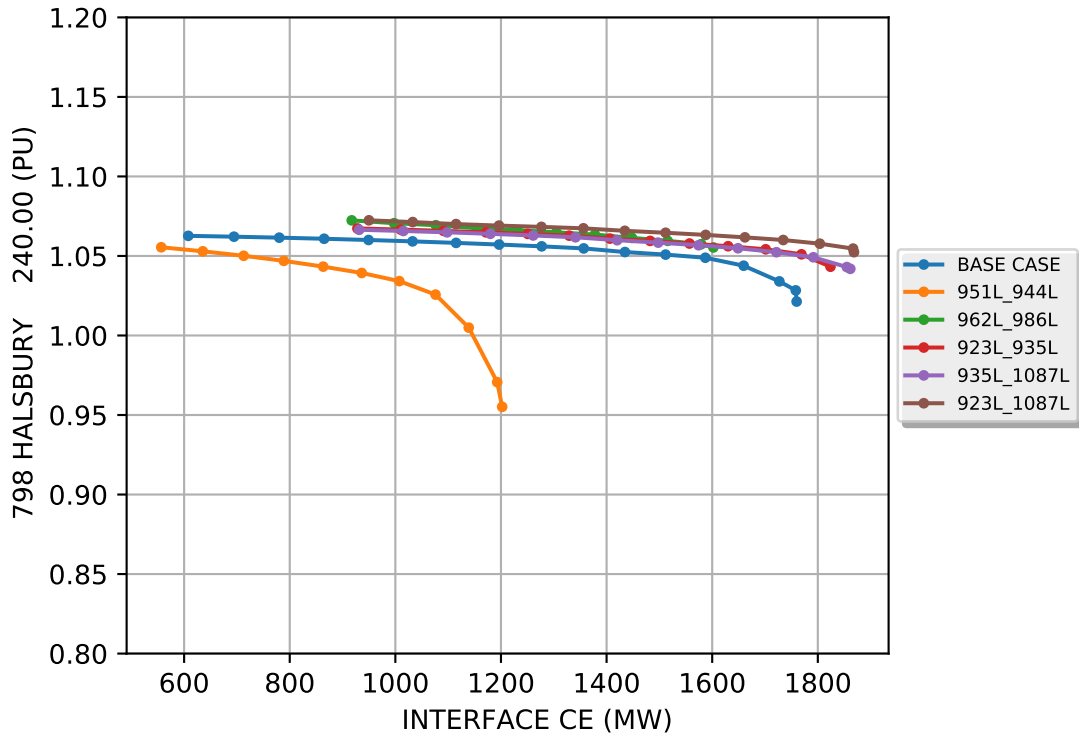


Figure: E-6-156

Case: M10, Option: BOTH2

Min Voltage: 1.00 PU, Min Margin: 74.7%

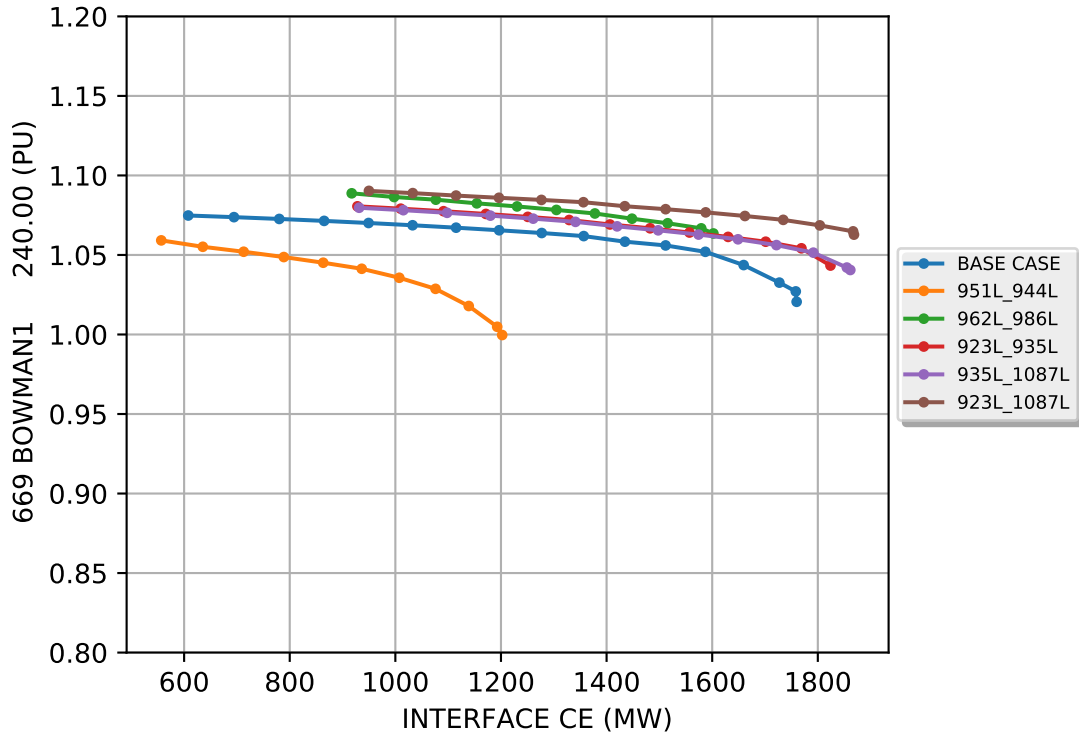


Figure: E-6-157

Case: M10, Option: BOTH2

Min Voltage: 0.91 PU, Min Margin: 74.7%

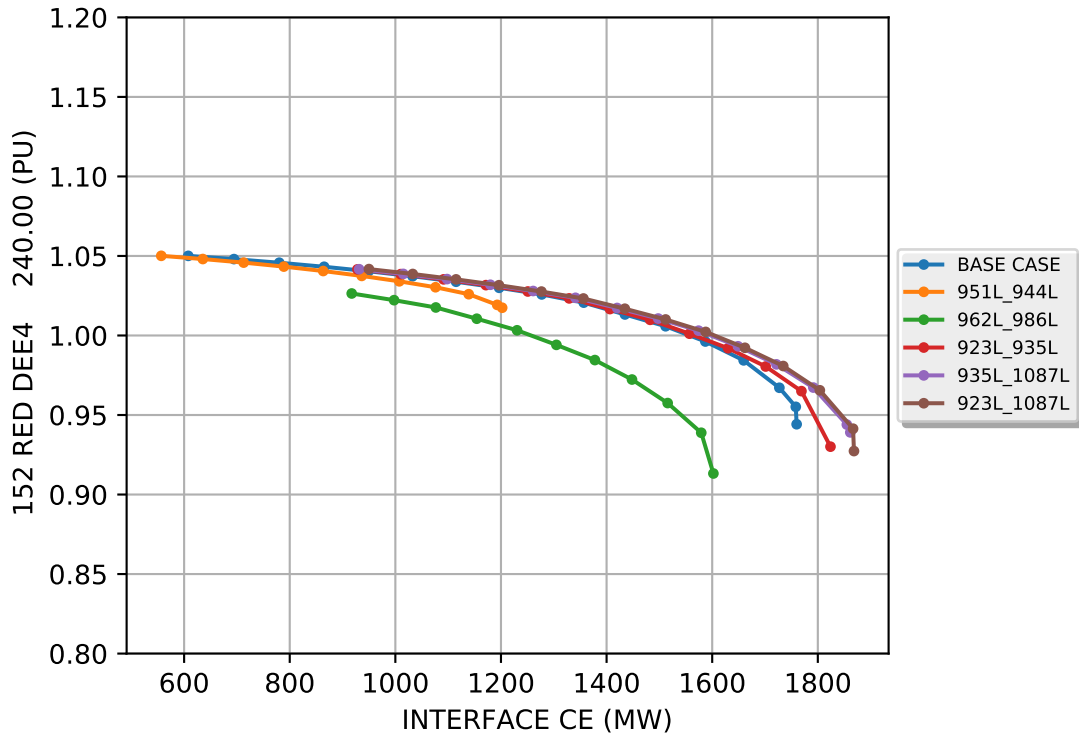


Figure: E-6-158

Case: M11, Option: BOTH2

Min Voltage: 0.82 PU, Min Margin: 43.1%

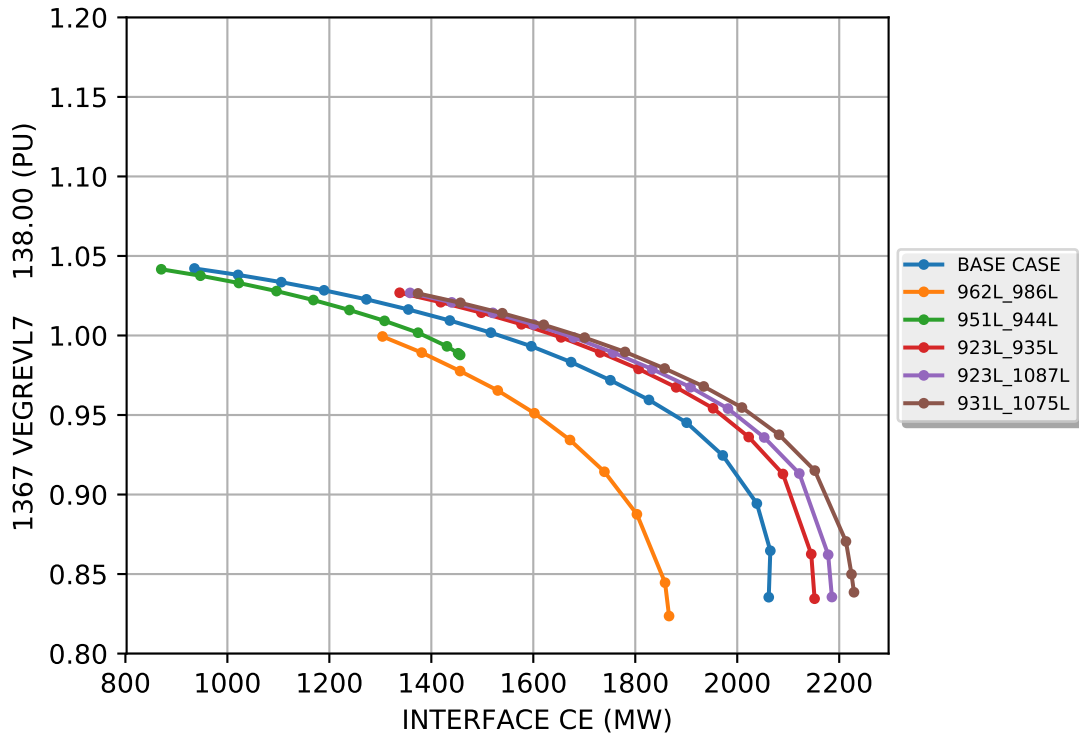


Figure: E-6-159

Case: M11, Option: BOTH2

Min Voltage: 0.84 PU, Min Margin: 43.1%

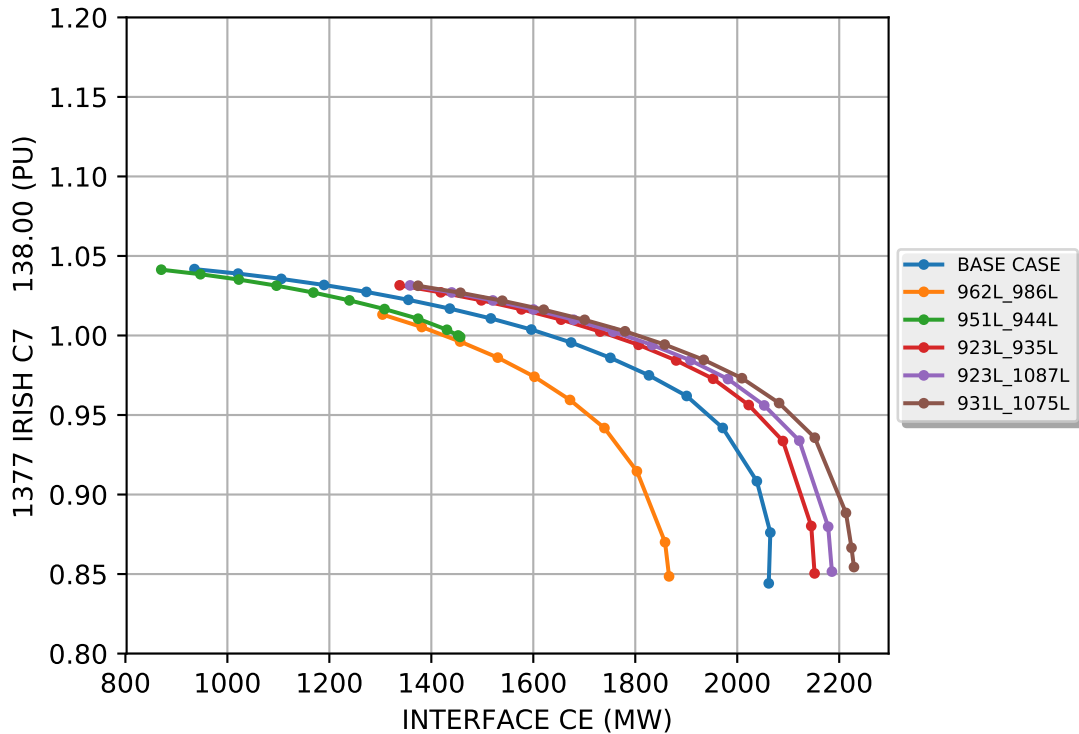


Figure: E-6-160

Case: M11, Option: BOTH2

Min Voltage: 0.84 PU, Min Margin: 43.1%

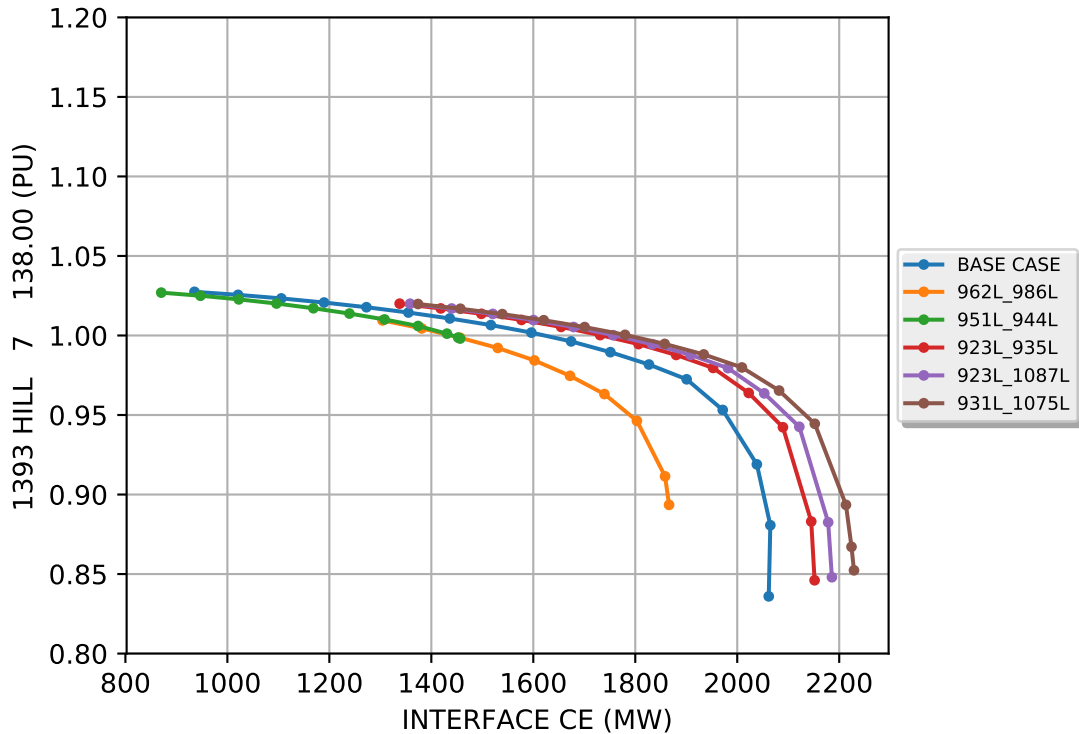


Figure: E-6-161

Case: M11, Option: BOTH2

Min Voltage: 0.87 PU, Min Margin: 43.1%

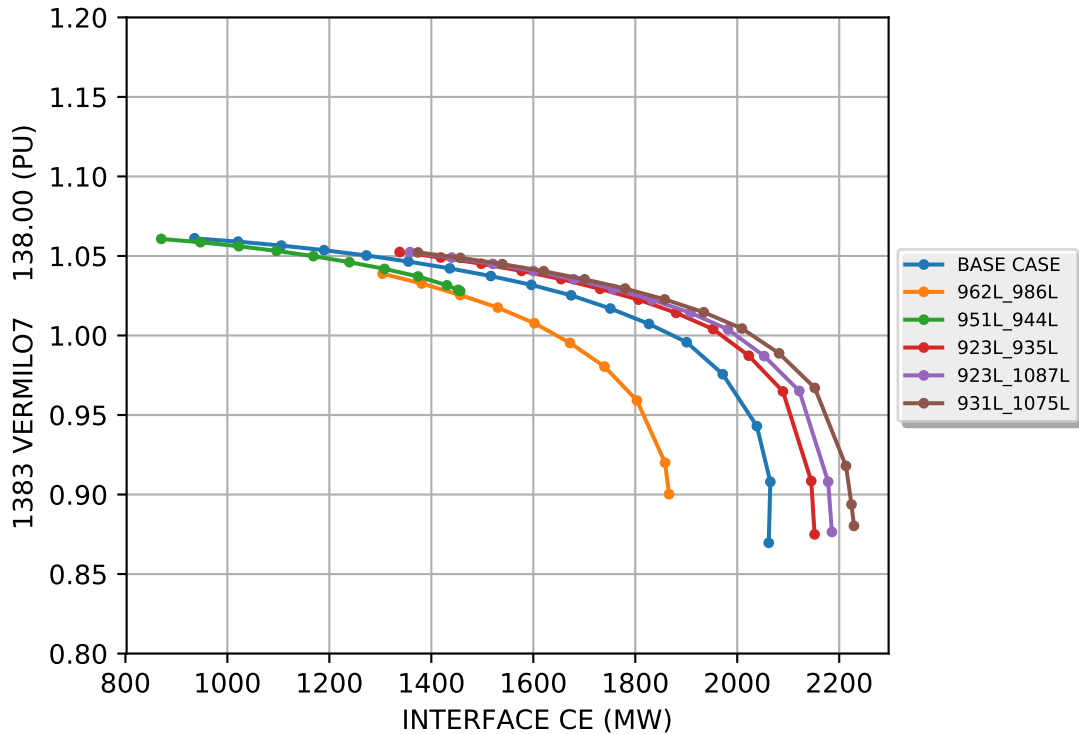


Figure: E-6-162

Case: M11, Option: BOTH2

Min Voltage: 0.84 PU, Min Margin: 43.1%

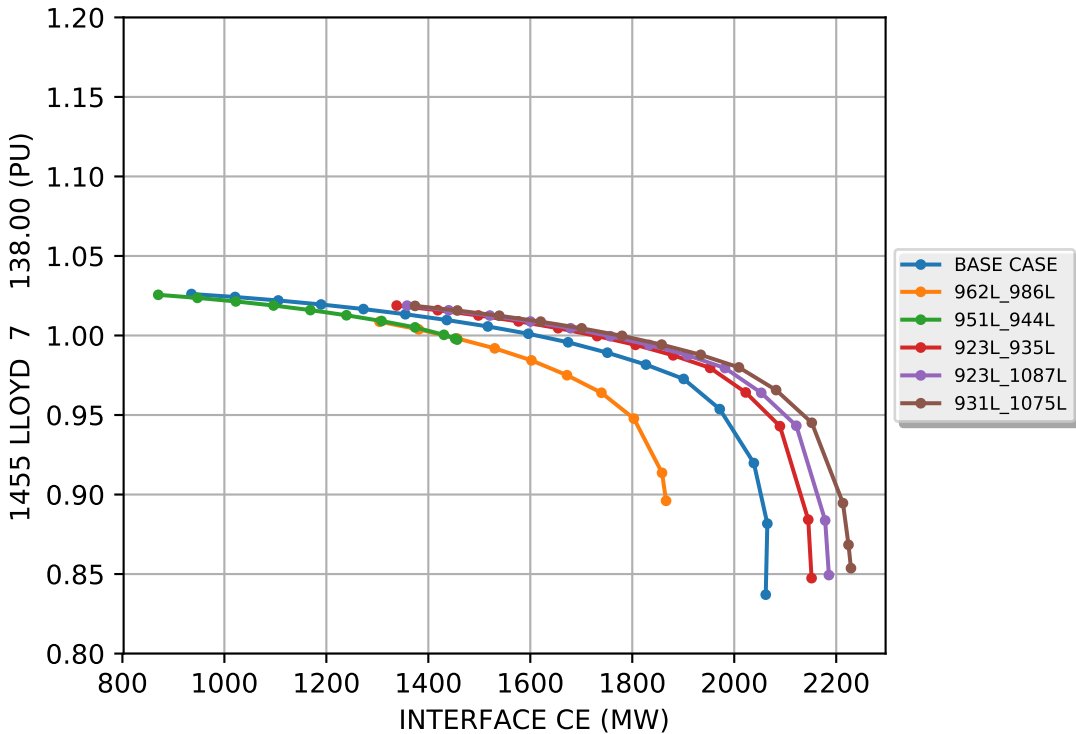


Figure: E-6-163

Case: M11, Option: BOTH2

Min Voltage: 0.84 PU, Min Margin: 43.1%

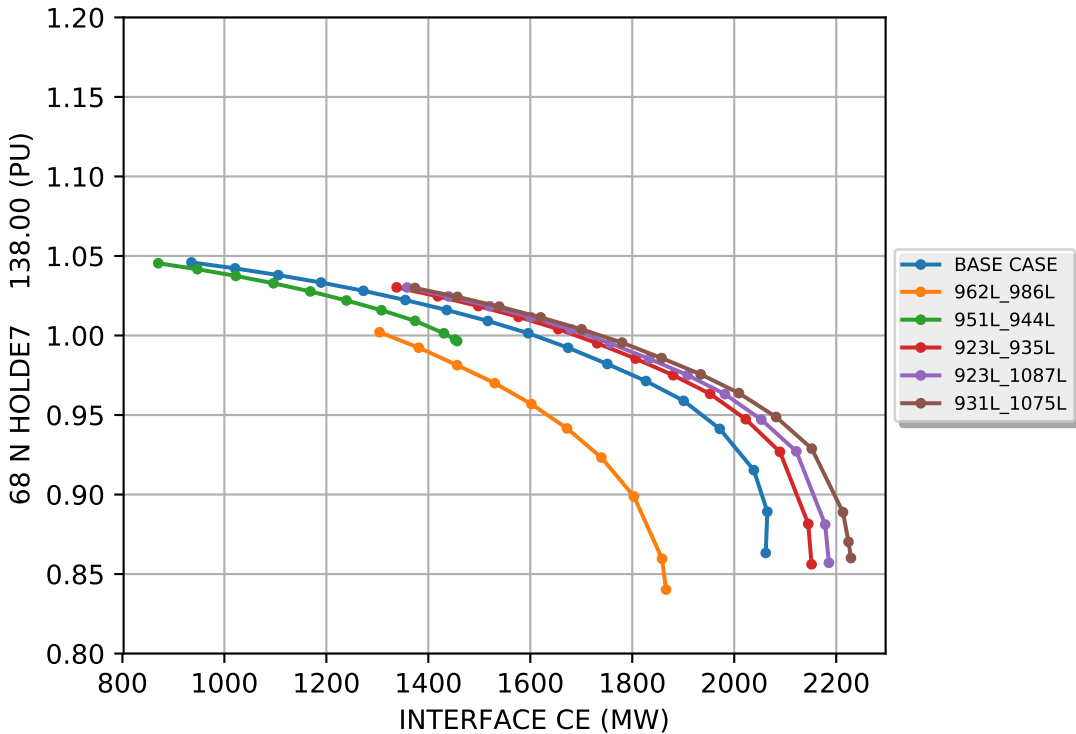


Figure: E-6-164

Case: M11, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 43.1%

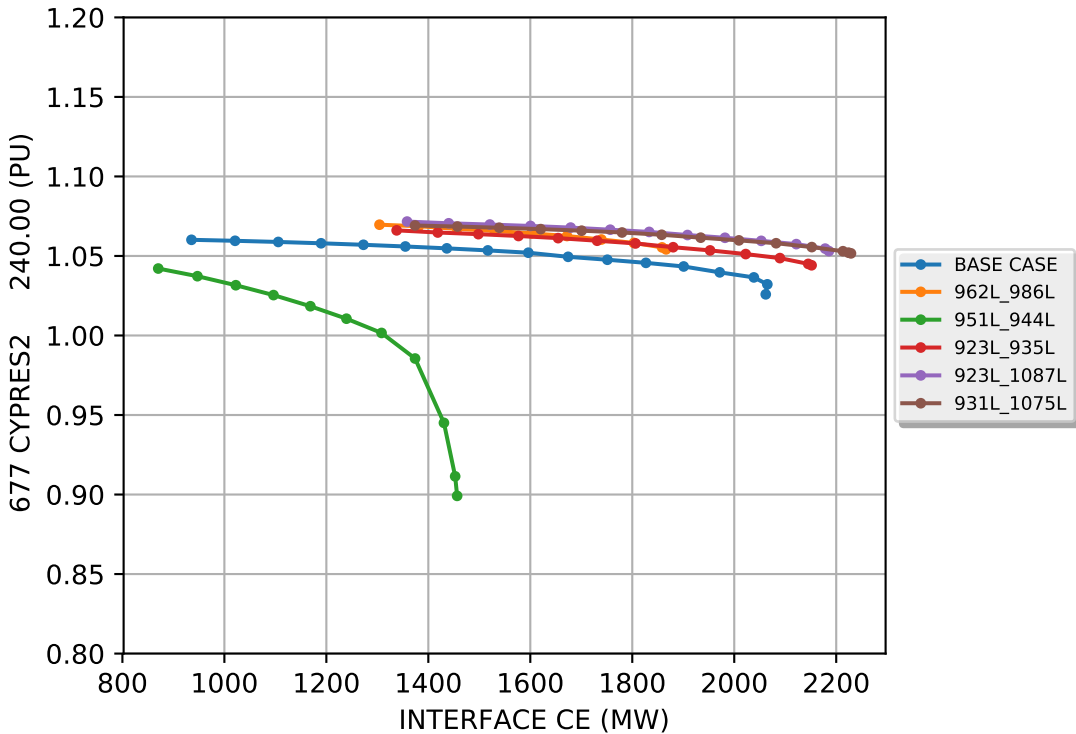


Figure: E-6-165

Case: M11, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 43.1%

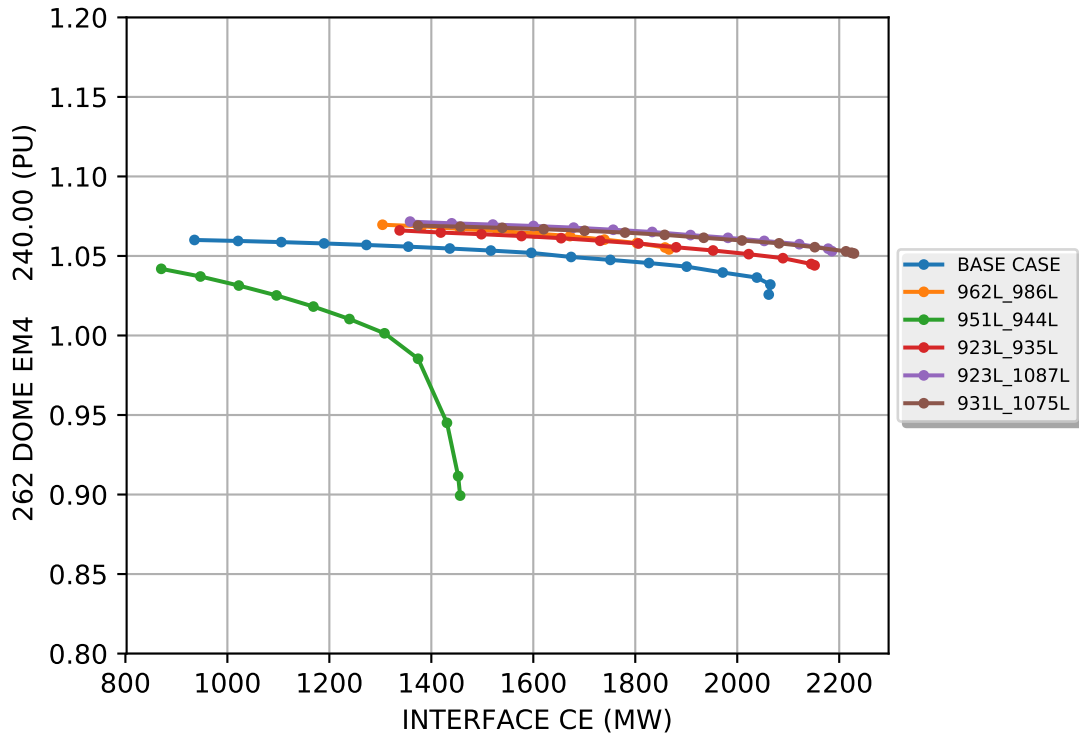


Figure: E-6-166

Case: M11, Option: BOTH2

Min Voltage: 0.94 PU, Min Margin: 43.1%

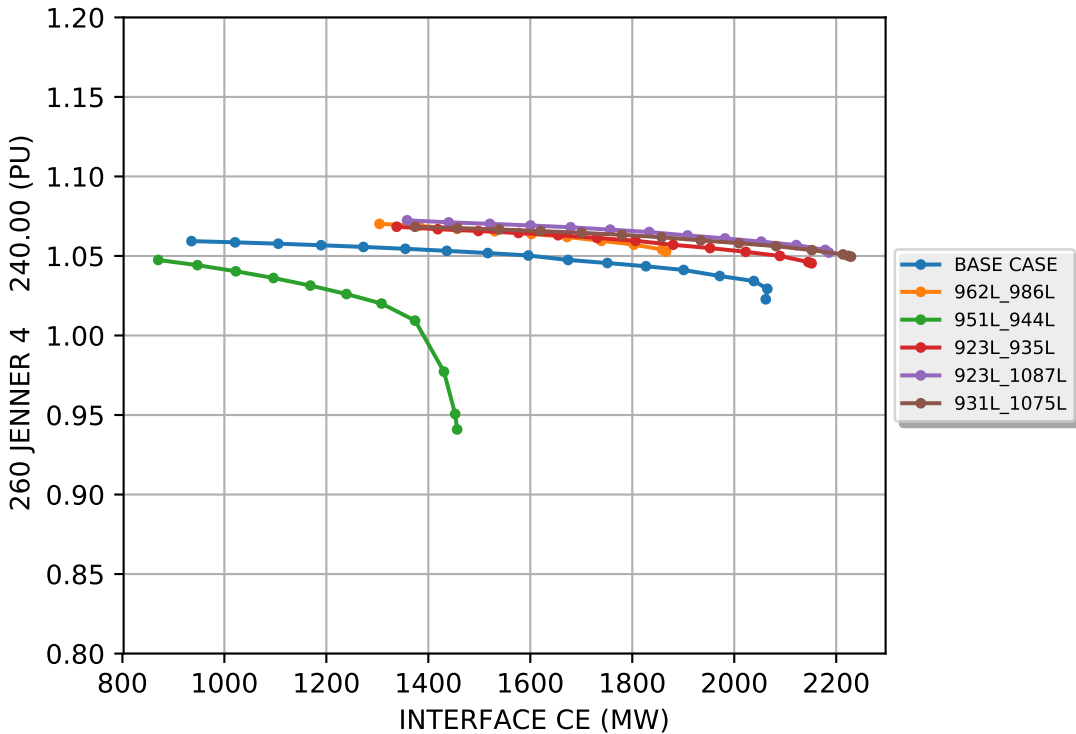


Figure: E-6-167

Case: M11, Option: BOTH2

Min Voltage: 0.96 PU, Min Margin: 43.1%

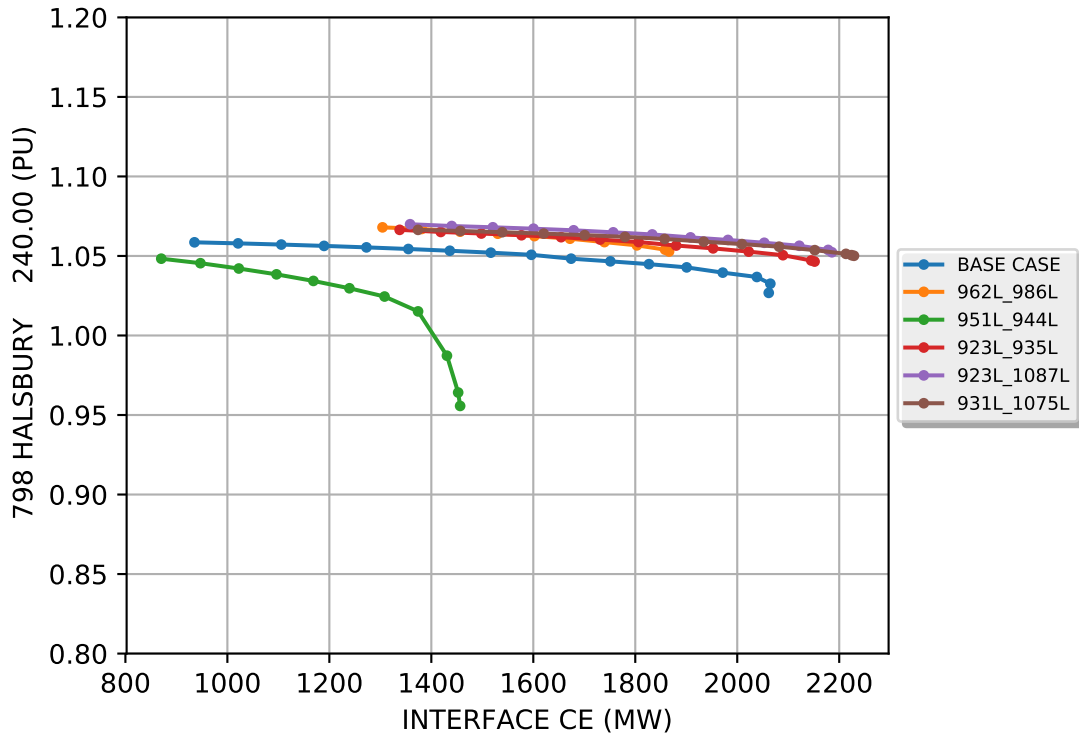


Figure: E-6-168

Case: M11, Option: BOTH2

Min Voltage: 0.99 PU, Min Margin: 43.1%

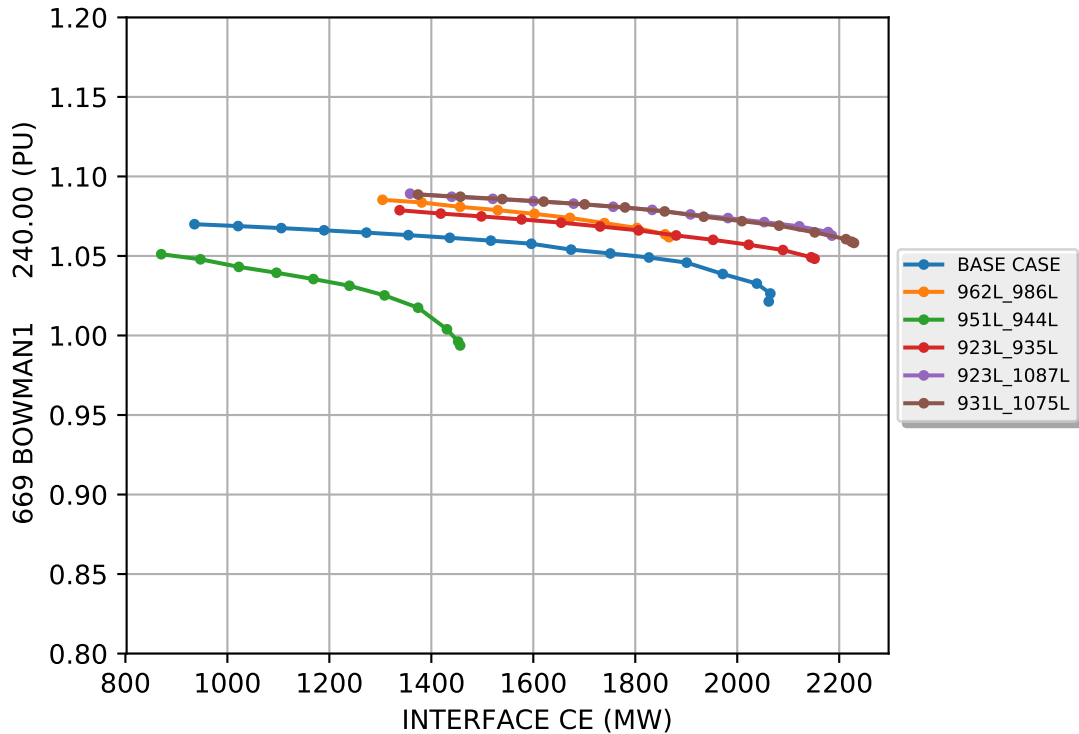


Figure: E-6-169

Case: H9, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 34.7%

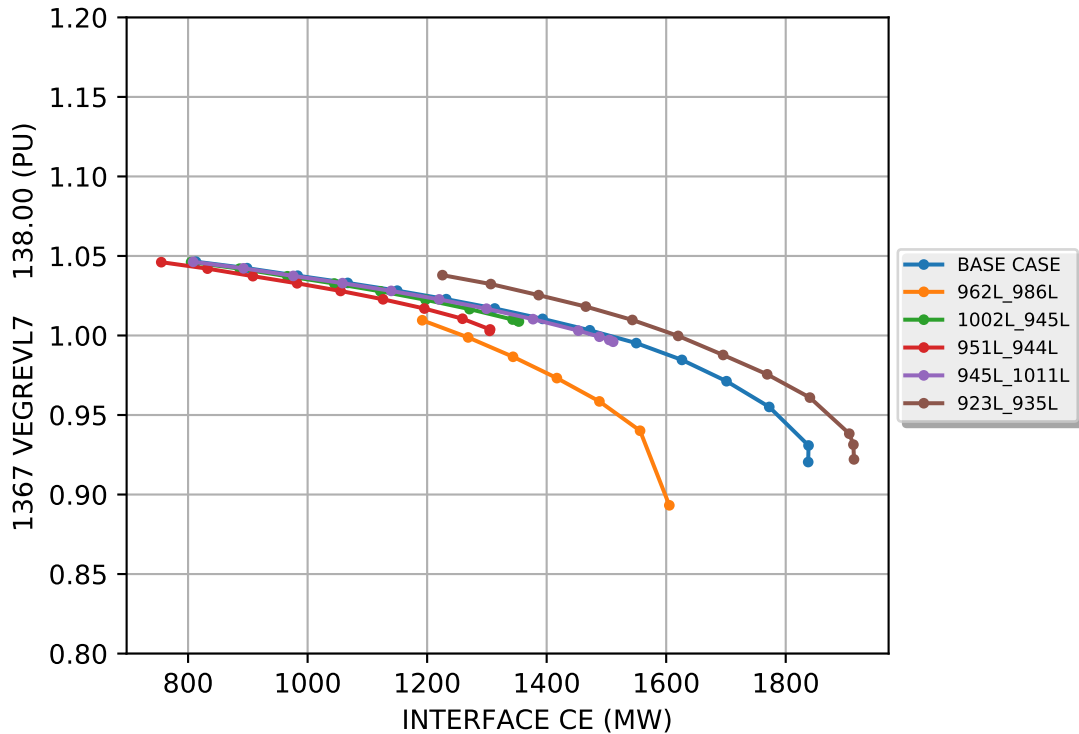


Figure: E-6-170

Case: H9, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 34.7%

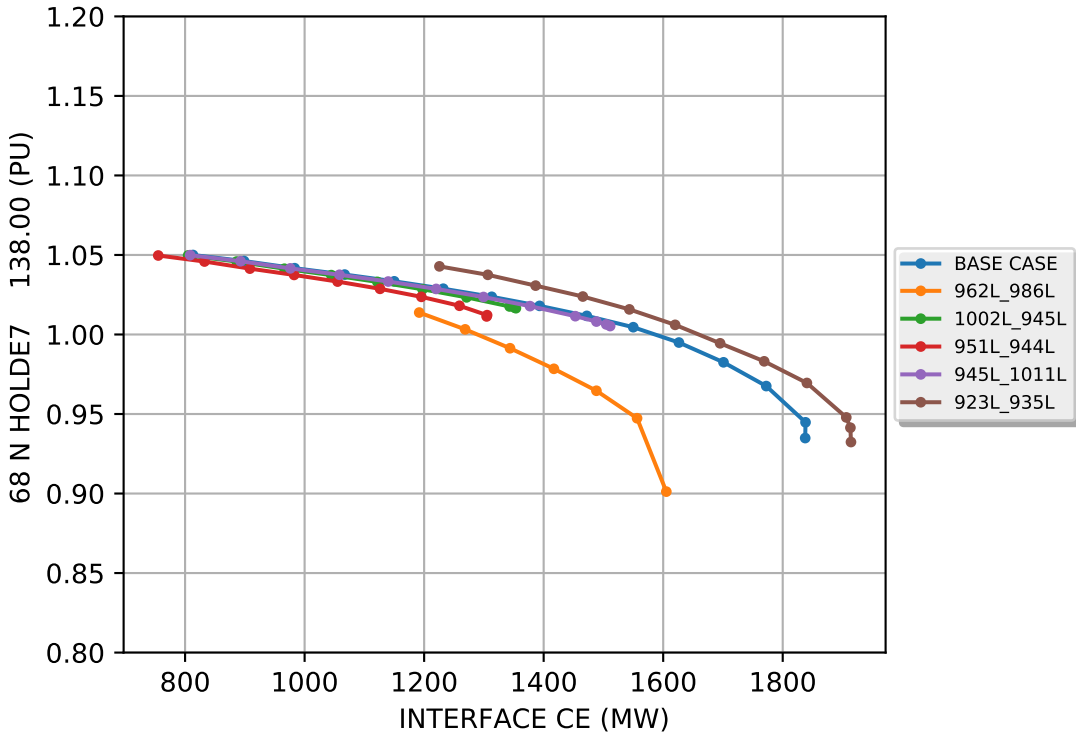


Figure: E-6-171

Case: H9, Option: BOTH2

Min Voltage: 0.92 PU, Min Margin: 34.7%

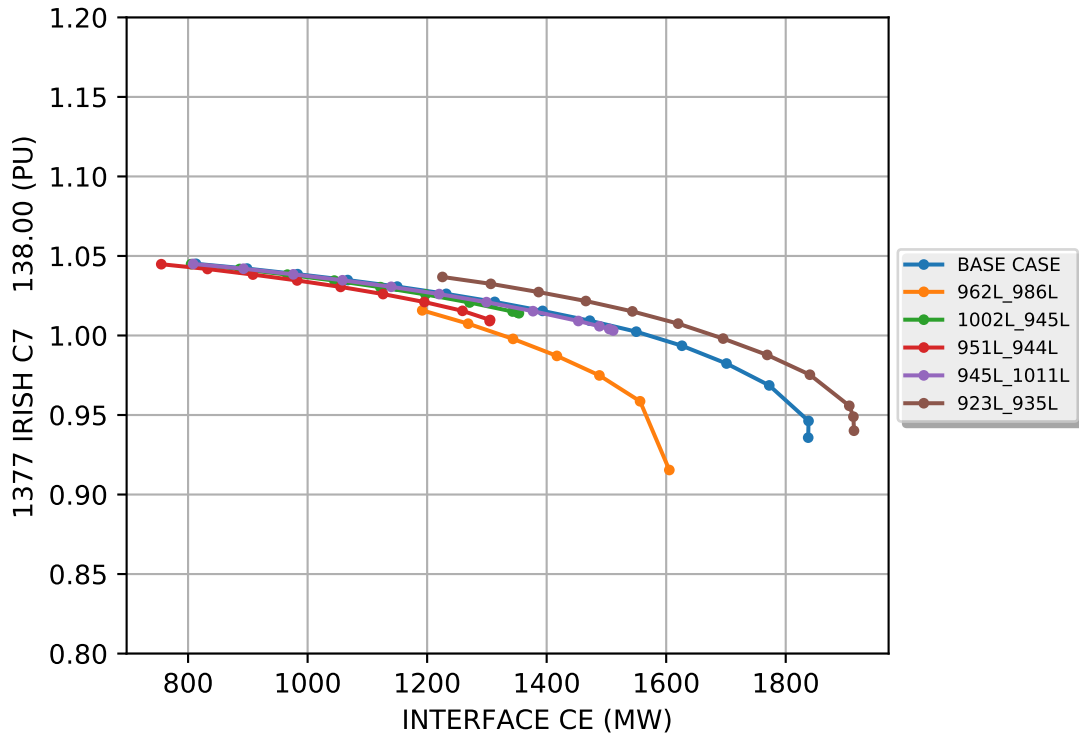


Figure: E-6-172

Case: H9, Option: BOTH2

Min Voltage: 0.96 PU, Min Margin: 34.7%

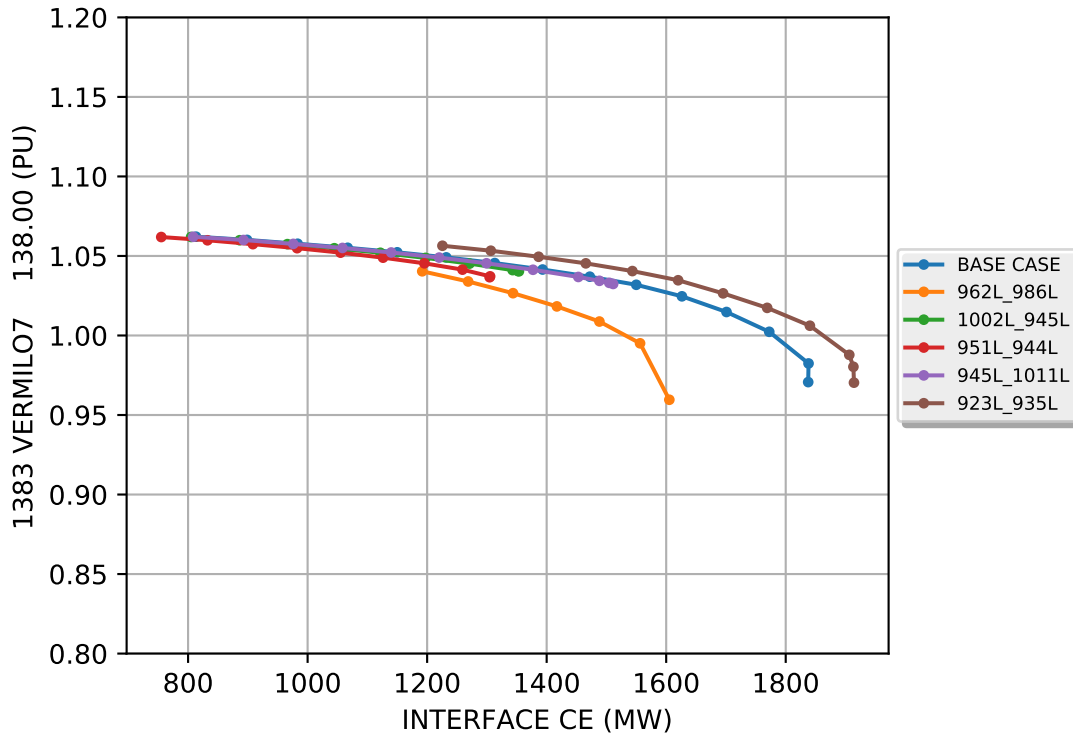


Figure: E-6-173

Case: H9, Option: BOTH2

Min Voltage: 0.92 PU, Min Margin: 34.7%

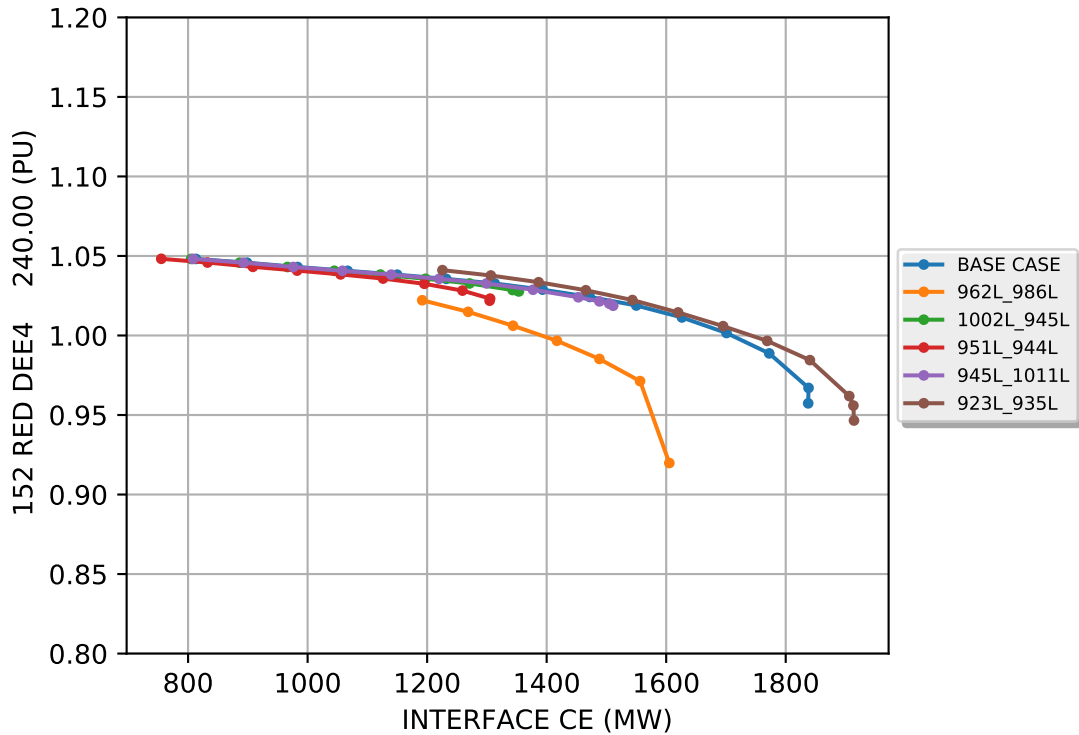


Figure: E-6-174

Case: H9, Option: BOTH2

Min Voltage: 0.92 PU, Min Margin: 34.7%

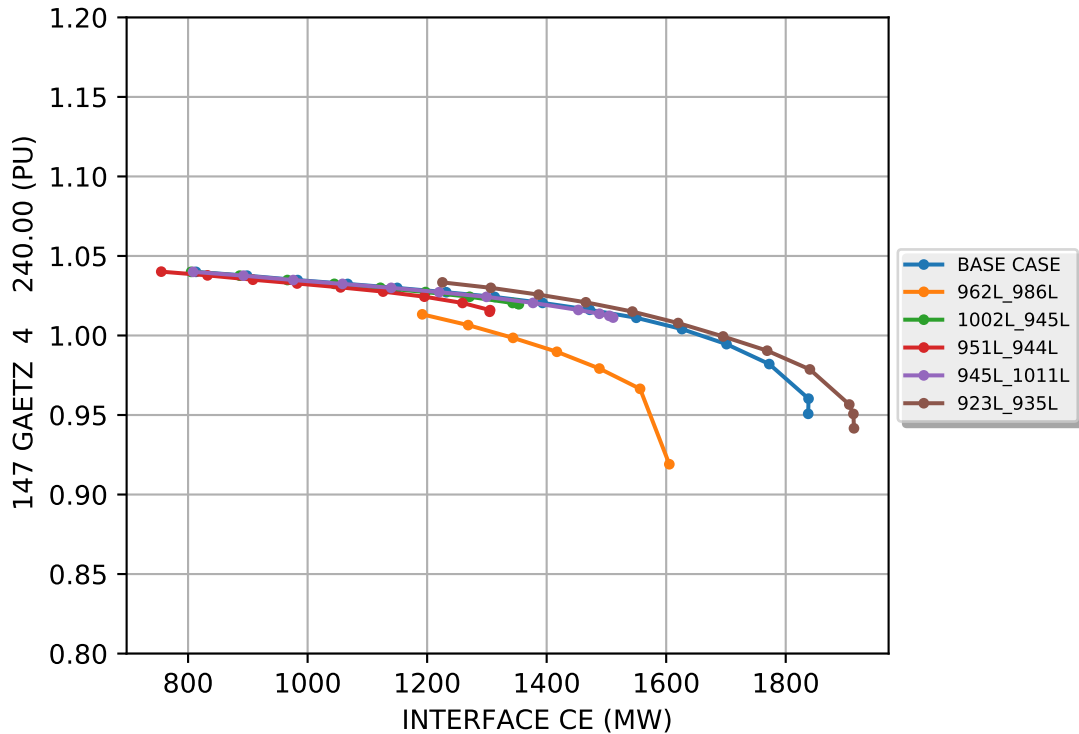


Figure: E-6-175

Case: H9, Option: BOTH2

Min Voltage: 0.91 PU, Min Margin: 34.7%

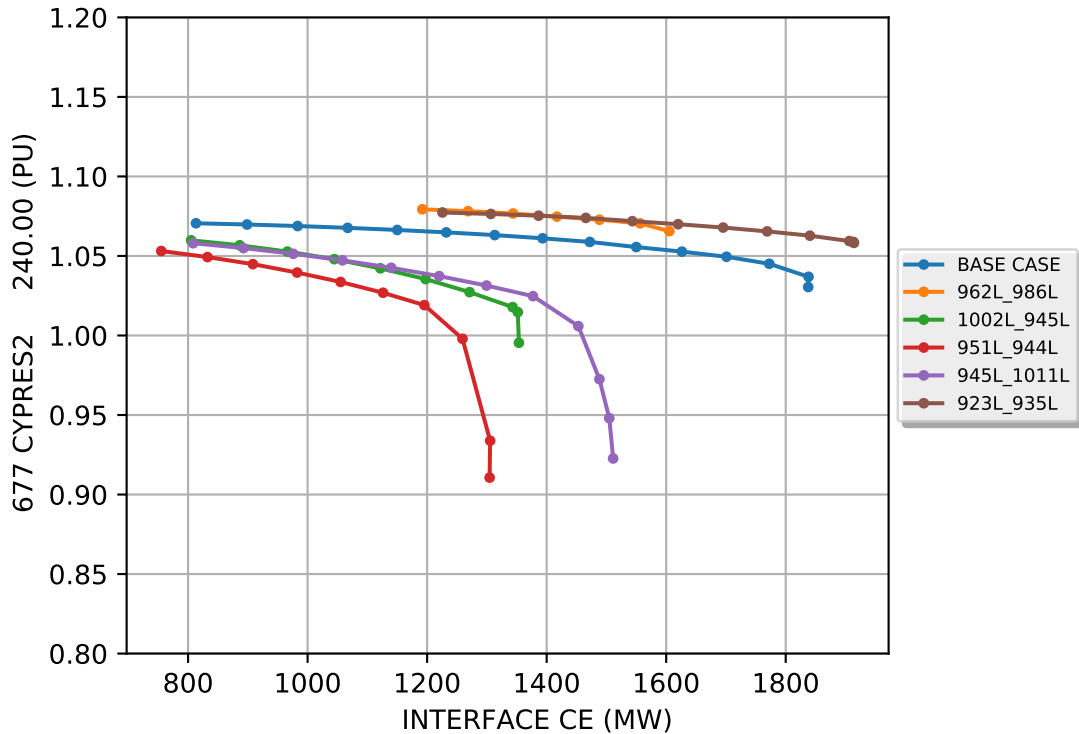


Figure: E-6-176

Case: H9, Option: BOTH2

Min Voltage: 0.91 PU, Min Margin: 34.7%

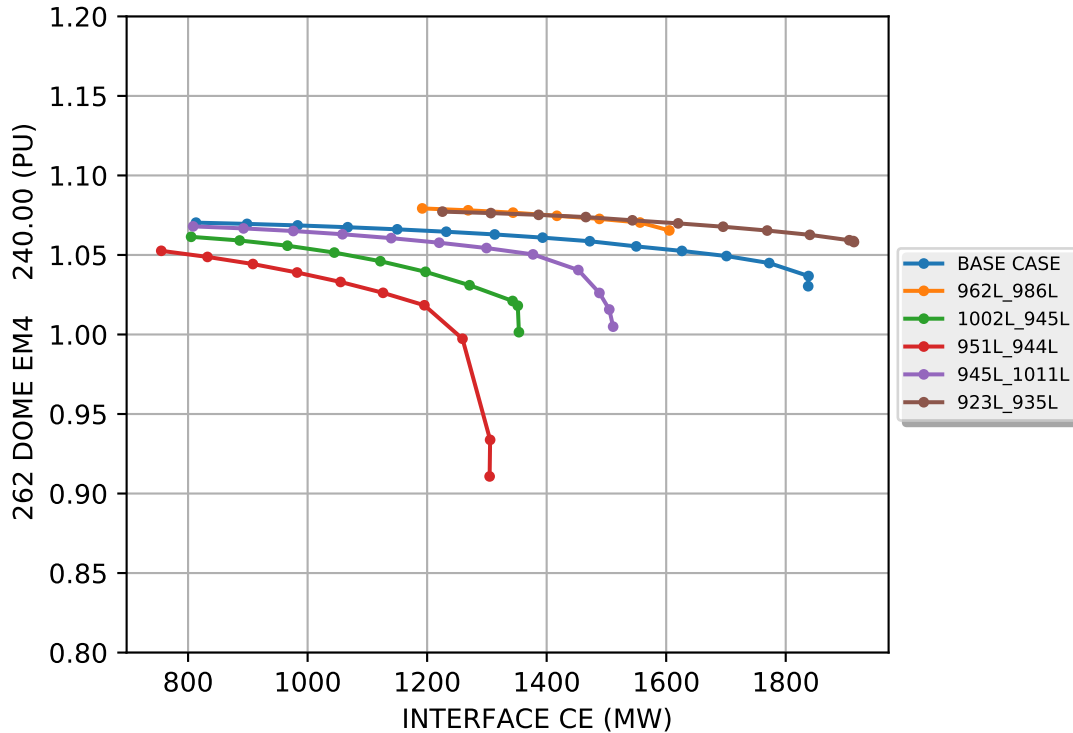


Figure: E-6-177

Case: H9, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 34.7%

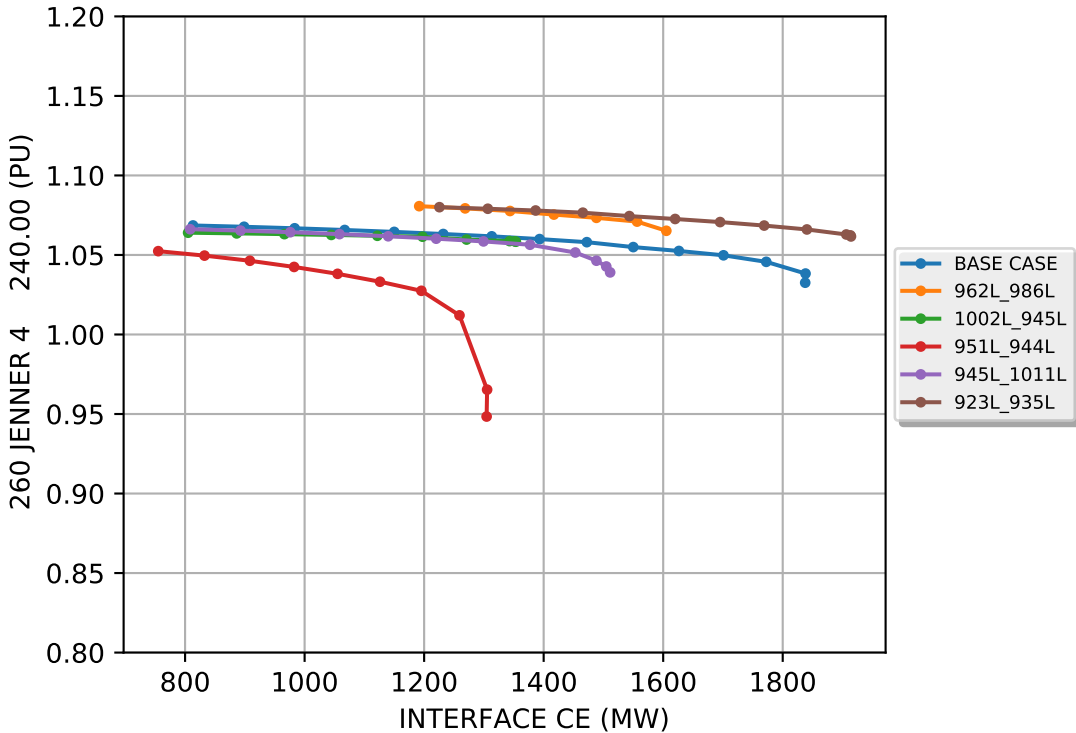


Figure: E-6-178

Case: H9, Option: BOTH2

Min Voltage: 0.96 PU, Min Margin: 34.7%

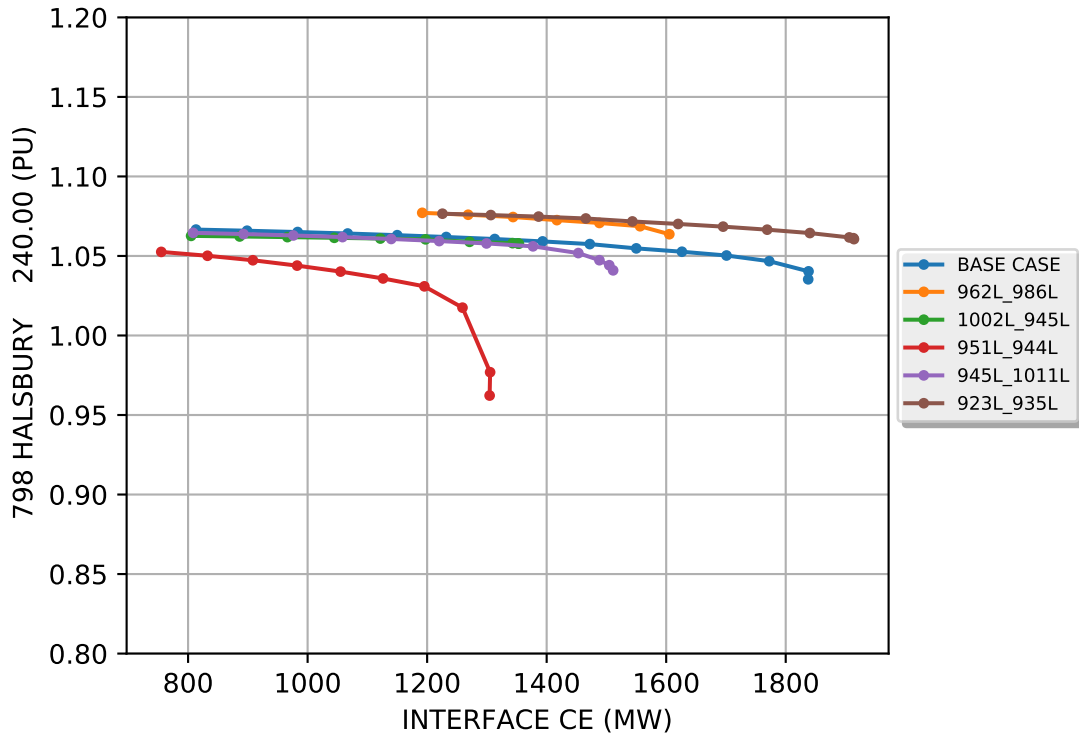


Figure: E-6-179

Case: H9, Option: BOTH2

Min Voltage: 1.01 PU, Min Margin: 34.7%

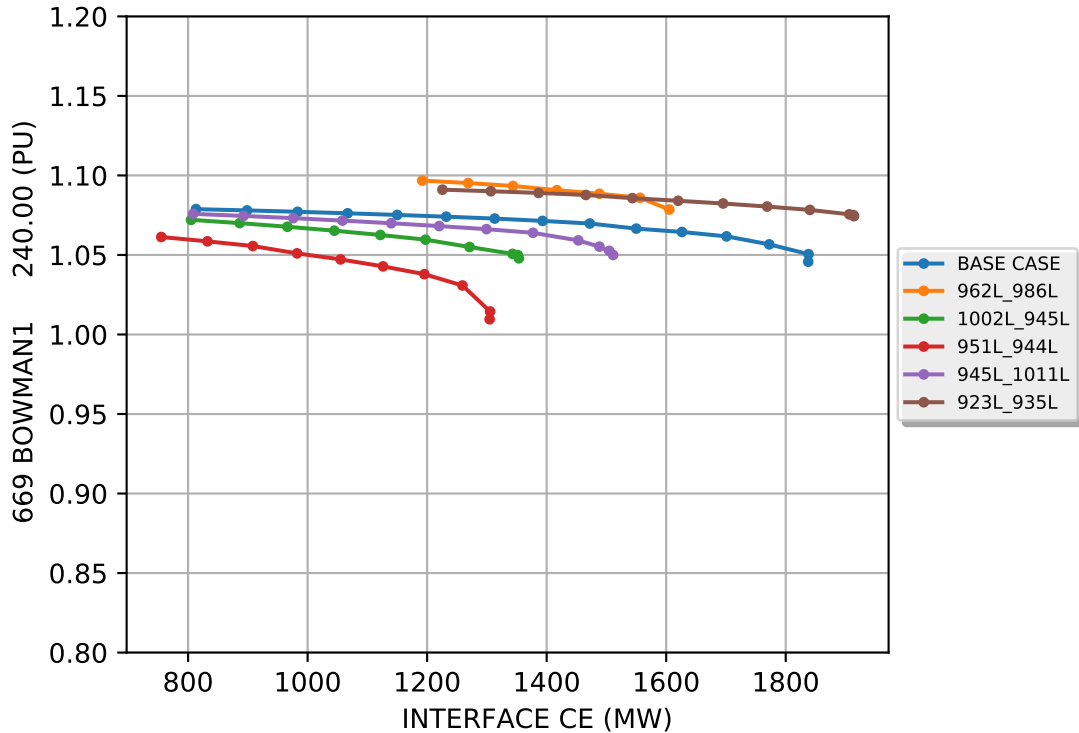


Figure: E-6-180

Case: H6, Option: BOTHC2

Min Voltage: 0.84 PU, Min Margin: 78.1%

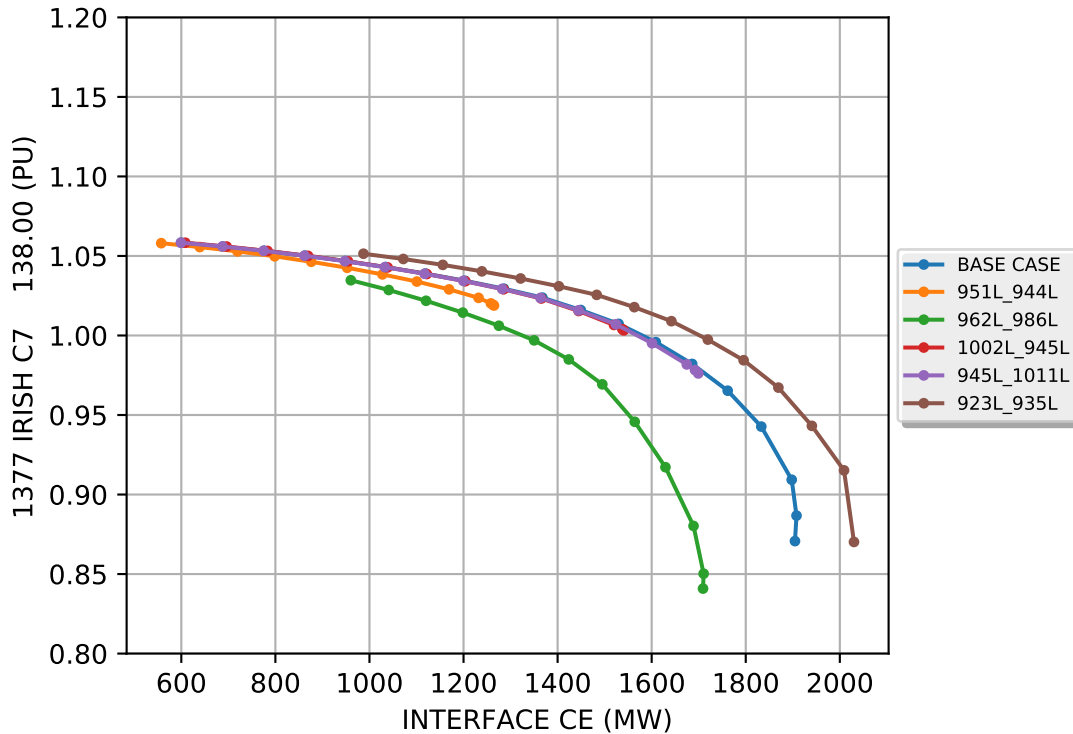


Figure: E-6-181

Case: H6, Option: BOTHC2

Min Voltage: 0.86 PU, Min Margin: 78.1%

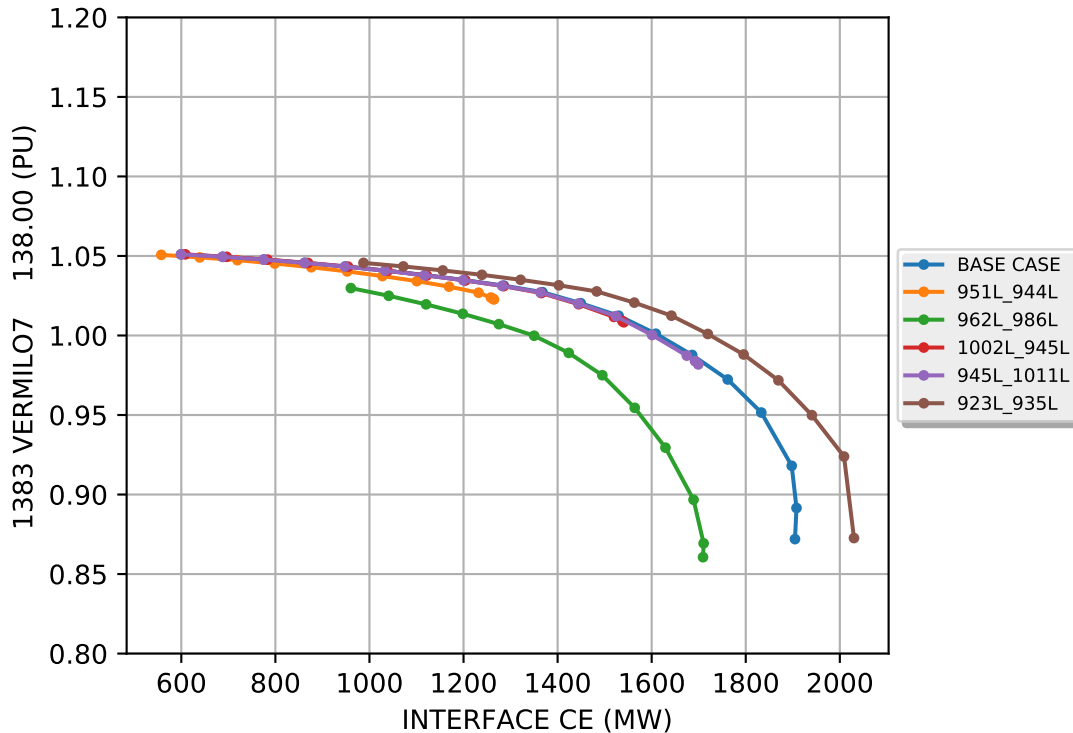


Figure: E-6-182

Case: H6, Option: BOTHC2

Min Voltage: 0.82 PU, Min Margin: 78.1%

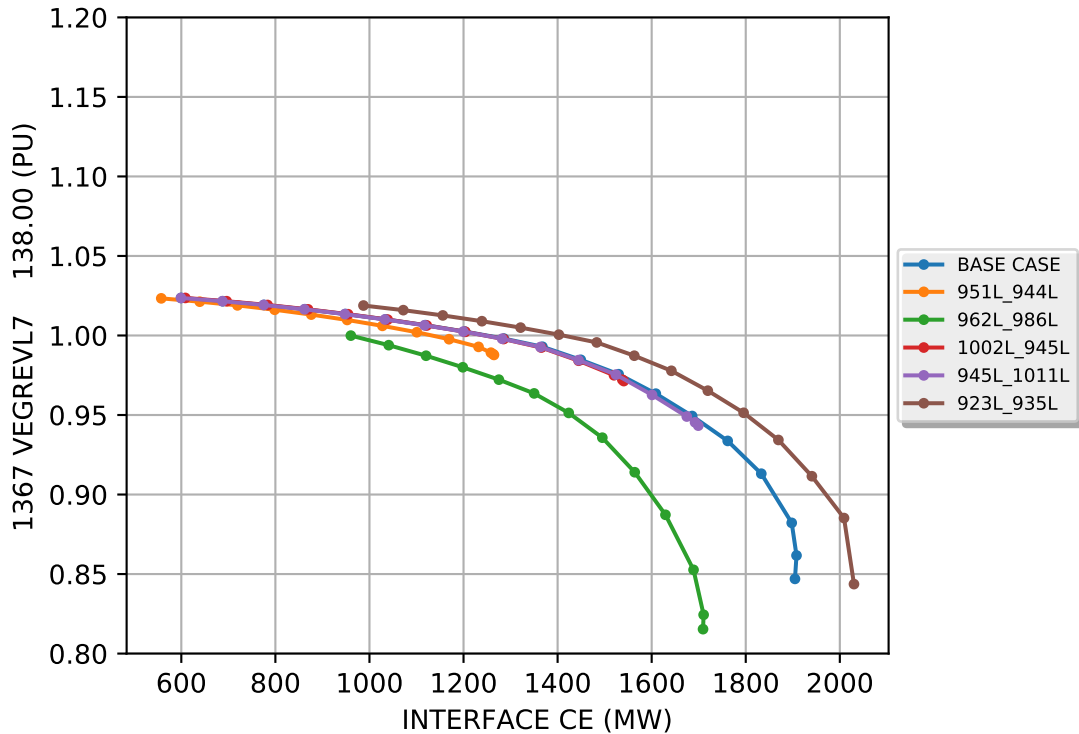


Figure: E-6-183

Case: H6, Option: BOTHC2

Min Voltage: 0.85 PU, Min Margin: 78.1%

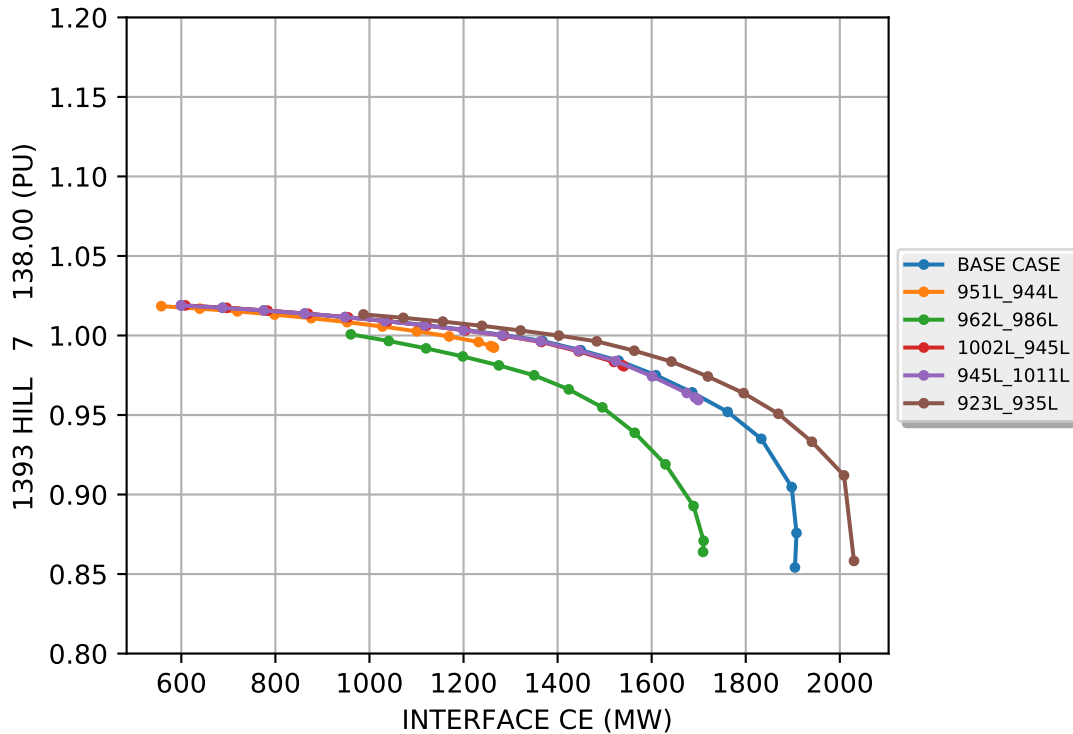


Figure: E-6-184

Case: H6, Option: BOTHC2

Min Voltage: 0.86 PU, Min Margin: 78.1%

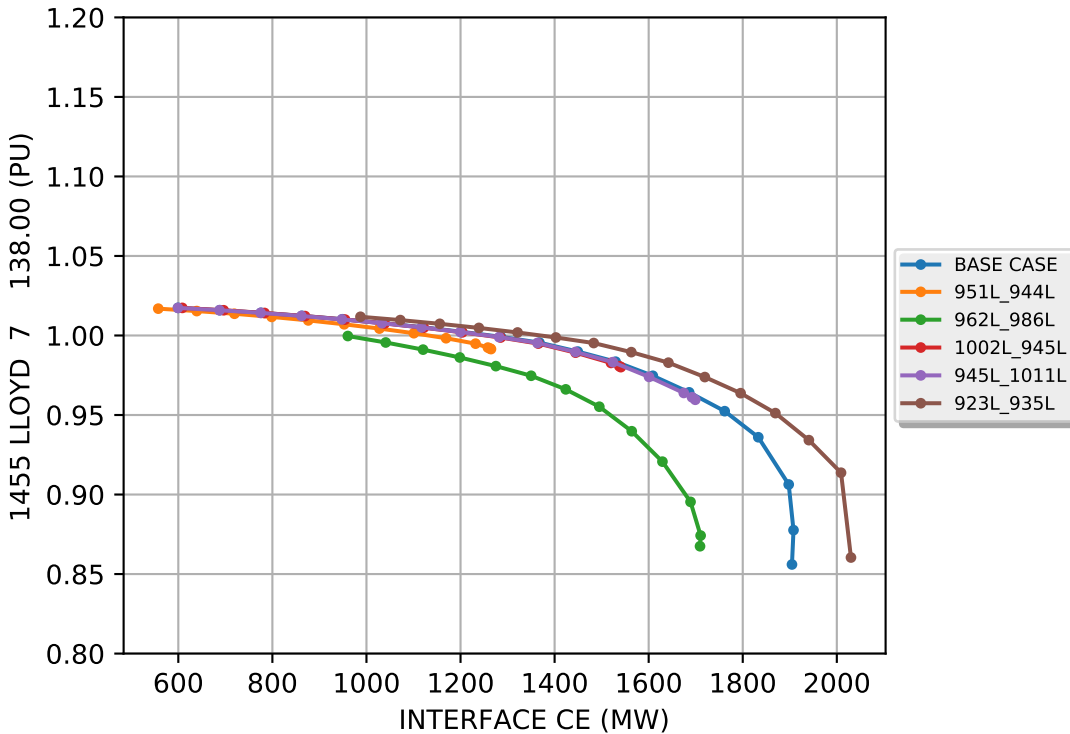


Figure: E-6-185

Case: H6, Option: BOTHC2

Min Voltage: 0.90 PU, Min Margin: 78.1%

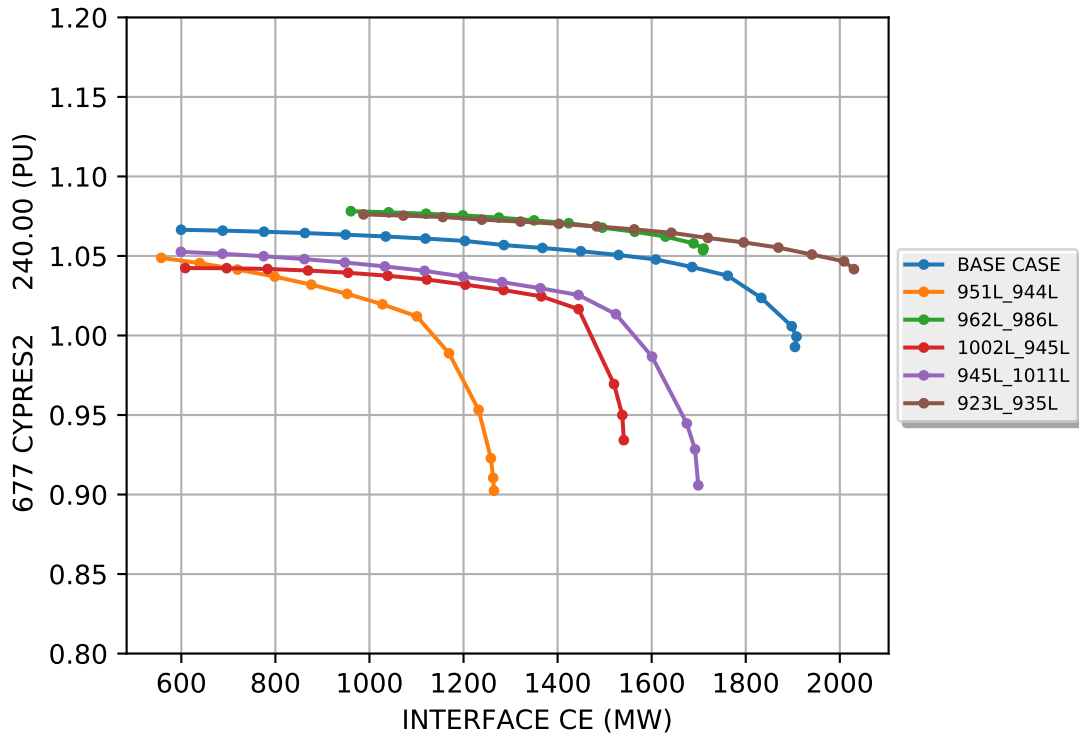


Figure: E-6-186

Case: H6, Option: BOTHC2

Min Voltage: 0.90 PU, Min Margin: 78.1%

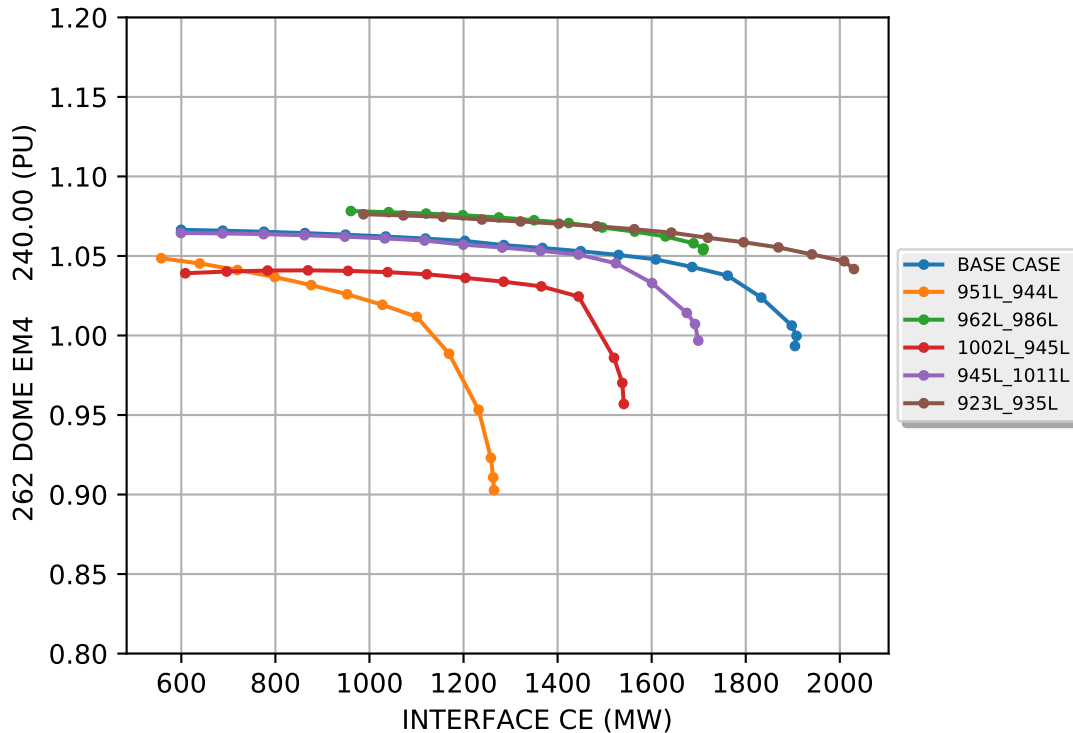


Figure: E-6-187

Case: H6, Option: BOTHC2

Min Voltage: 0.94 PU, Min Margin: 78.1%

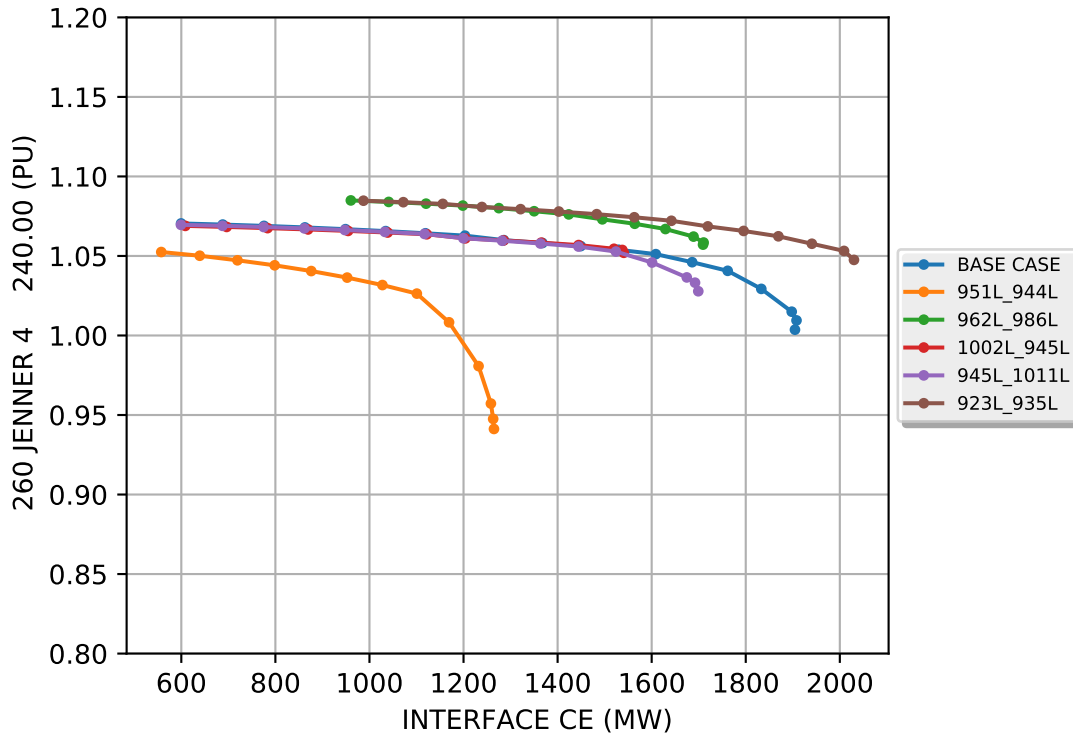


Figure: E-6-188

Case: H6, Option: BOTHC2

Min Voltage: 0.96 PU, Min Margin: 78.1%

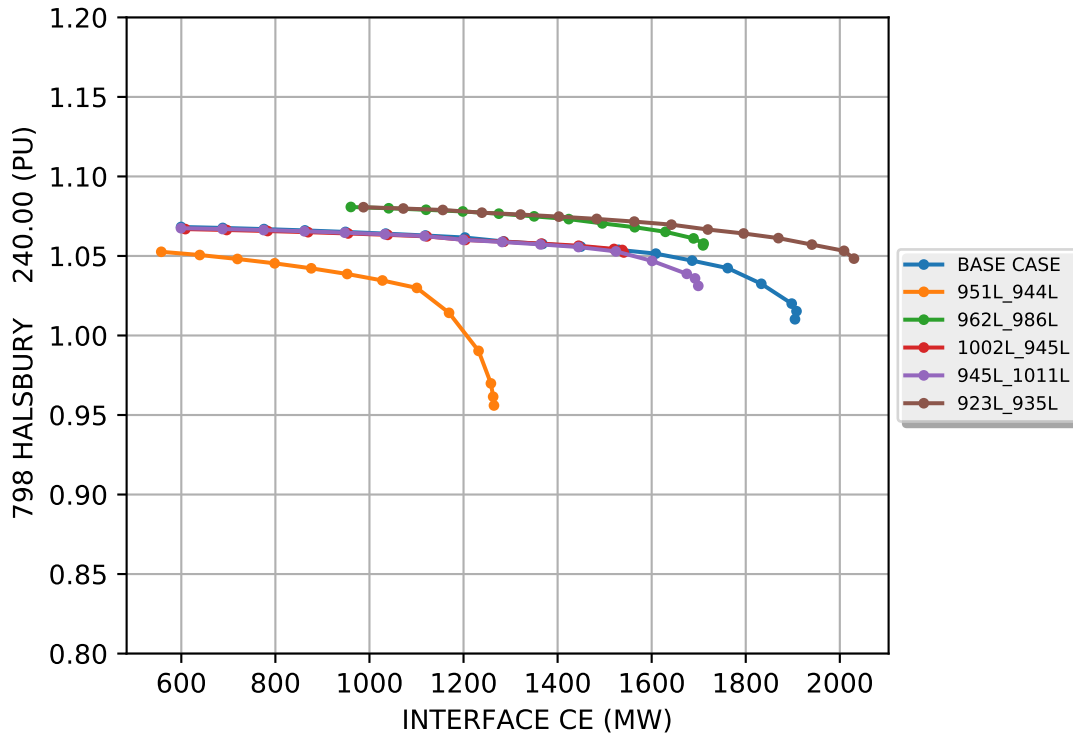


Figure: E-6-189

Case: H6, Option: BOTHC2

Min Voltage: 1.01 PU, Min Margin: 78.1%

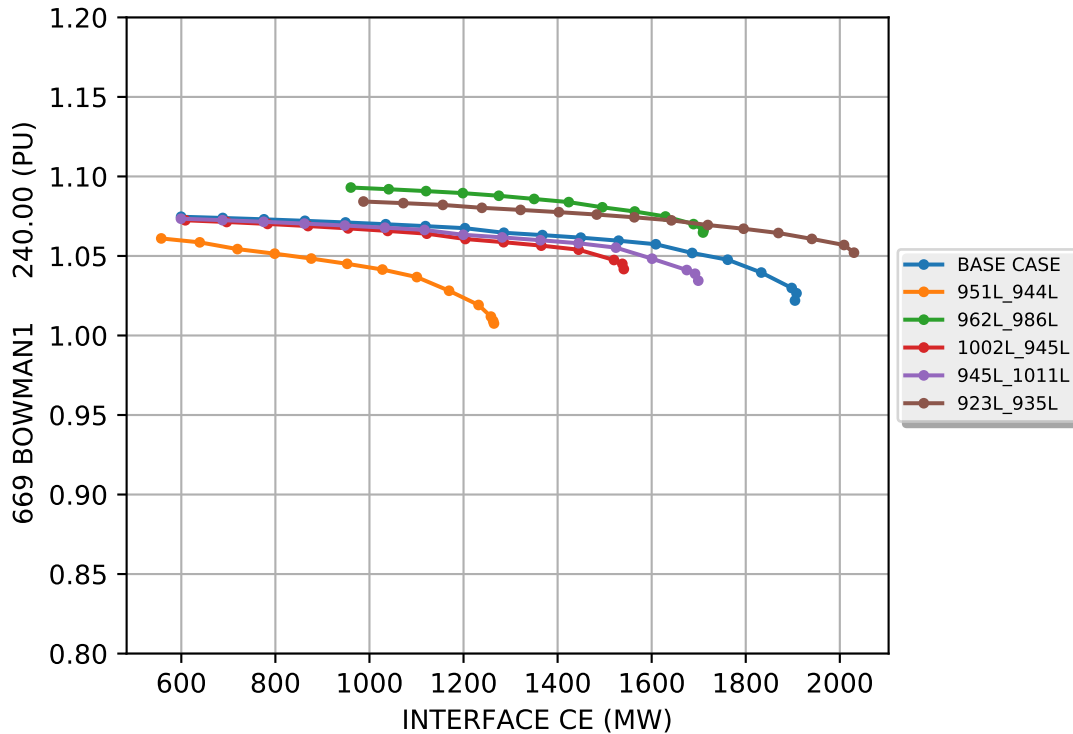


Figure: E-6-190

Case: H6, Option: BOTHC2

Min Voltage: 0.84 PU, Min Margin: 78.1%

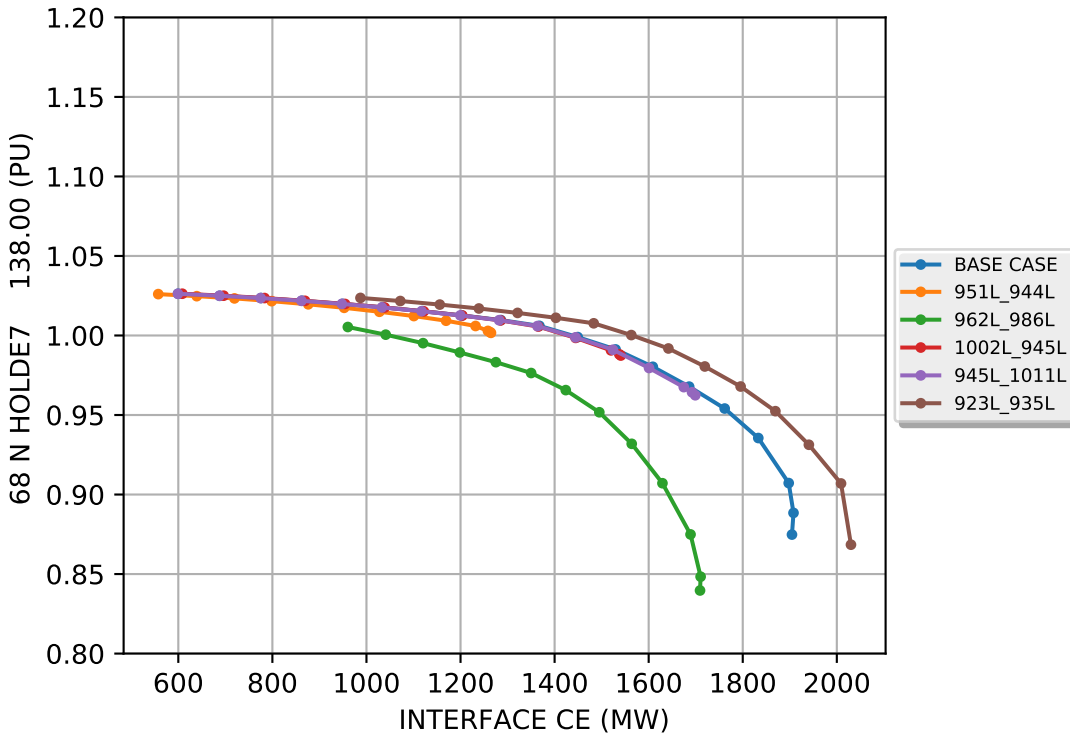


Figure: E-6-191

Case: H5, Option: BOTHC2

Min Voltage: 0.86 PU, Min Margin: 26.0%

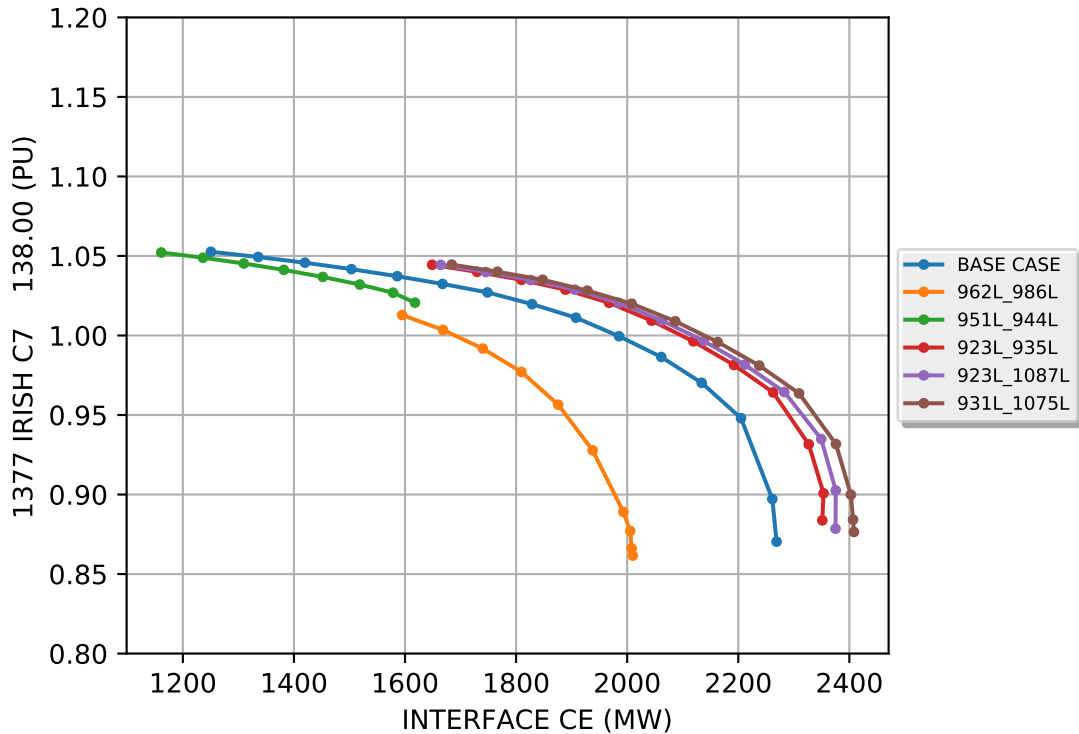


Figure: E-6-192

Case: H5, Option: BOTHC2

Min Voltage: 0.87 PU, Min Margin: 26.0%

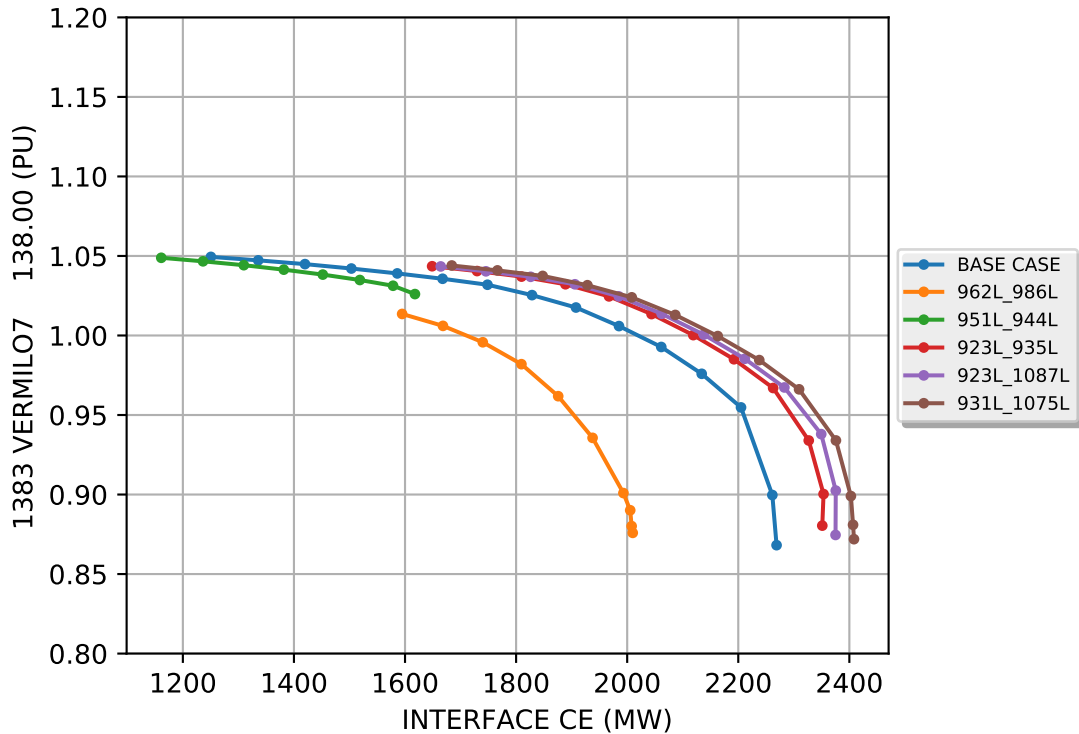


Figure: E-6-193

Case: H5, Option: BOTHC2

Min Voltage: 0.82 PU, Min Margin: 26.0%

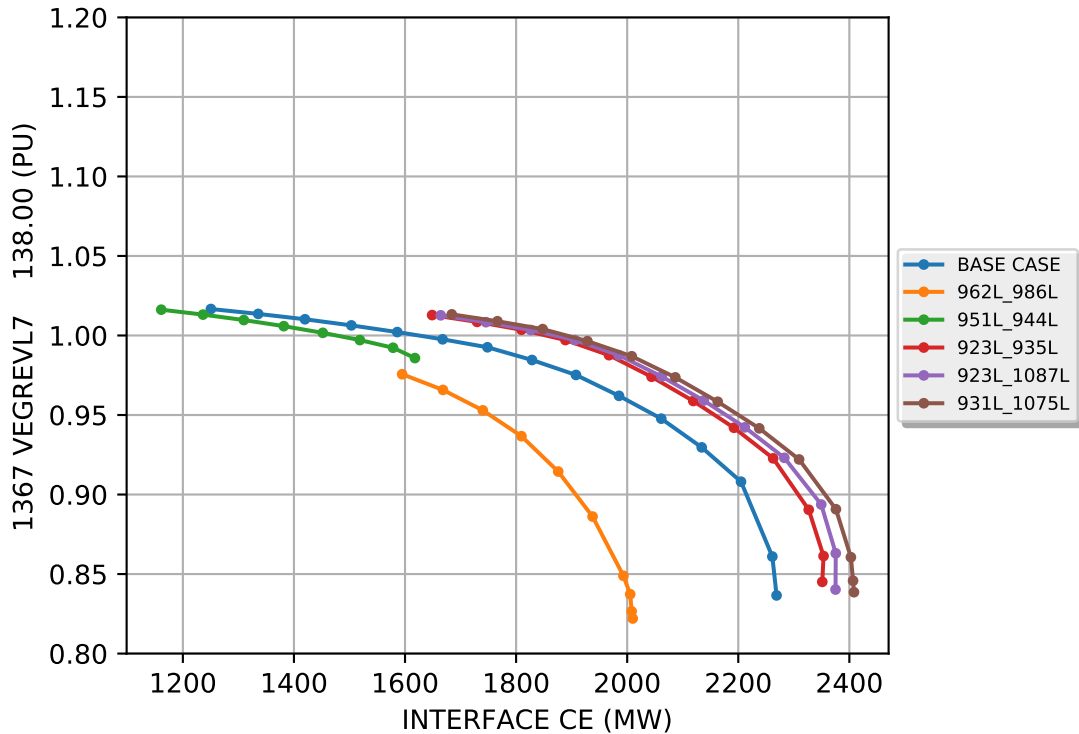


Figure: E-6-194

Case: H5, Option: BOTHC2

Min Voltage: 0.86 PU, Min Margin: 26.0%

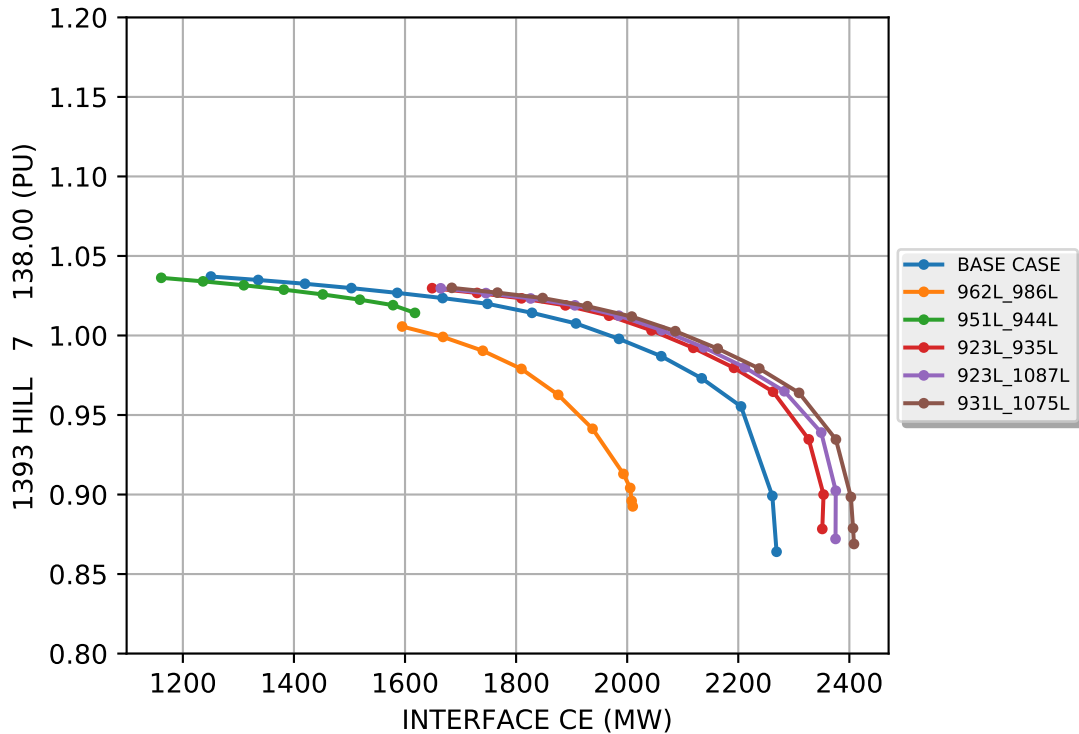


Figure: E-6-195

Case: H5, Option: BOTHC2

Min Voltage: 0.87 PU, Min Margin: 26.0%

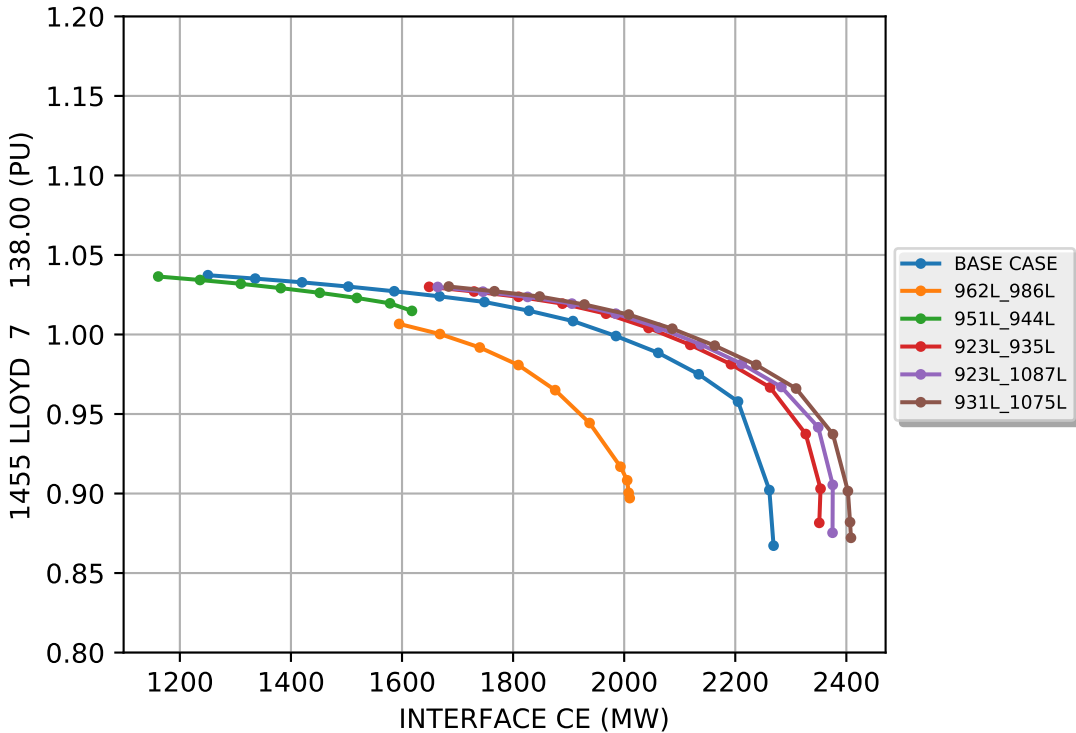


Figure: E-6-196

Case: H5, Option: BOTHC2

Min Voltage: 0.84 PU, Min Margin: 26.0%

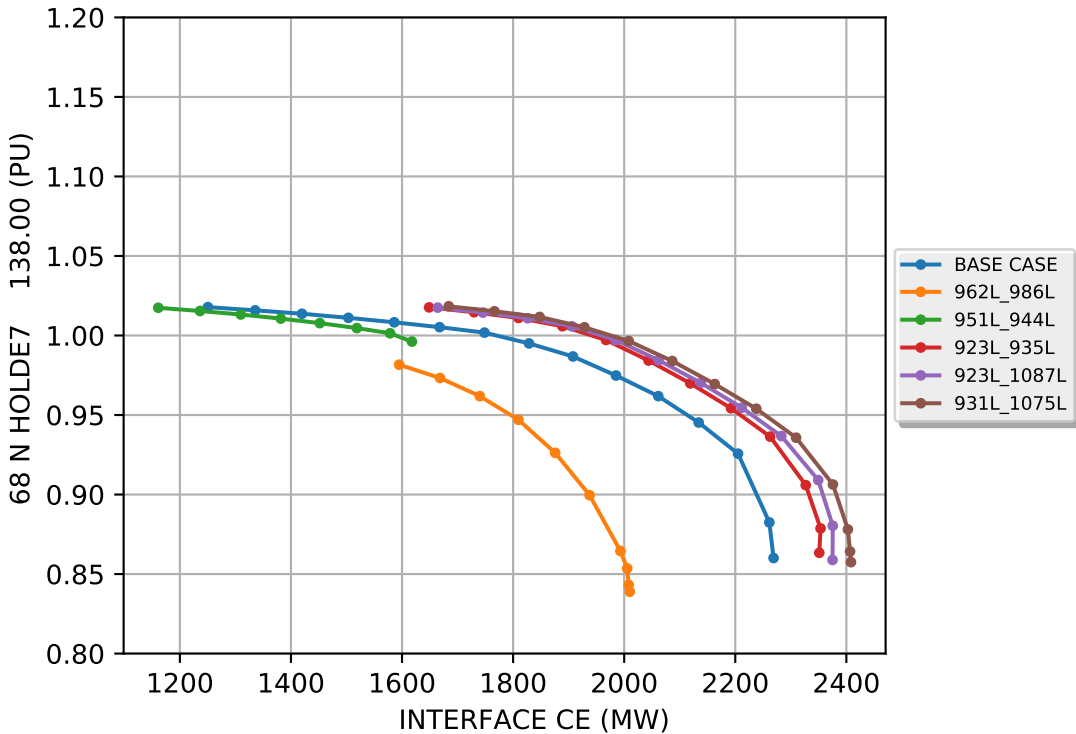


Figure: E-6-197

Case: H5, Option: BOTHC2

Min Voltage: 0.91 PU, Min Margin: 26.0%

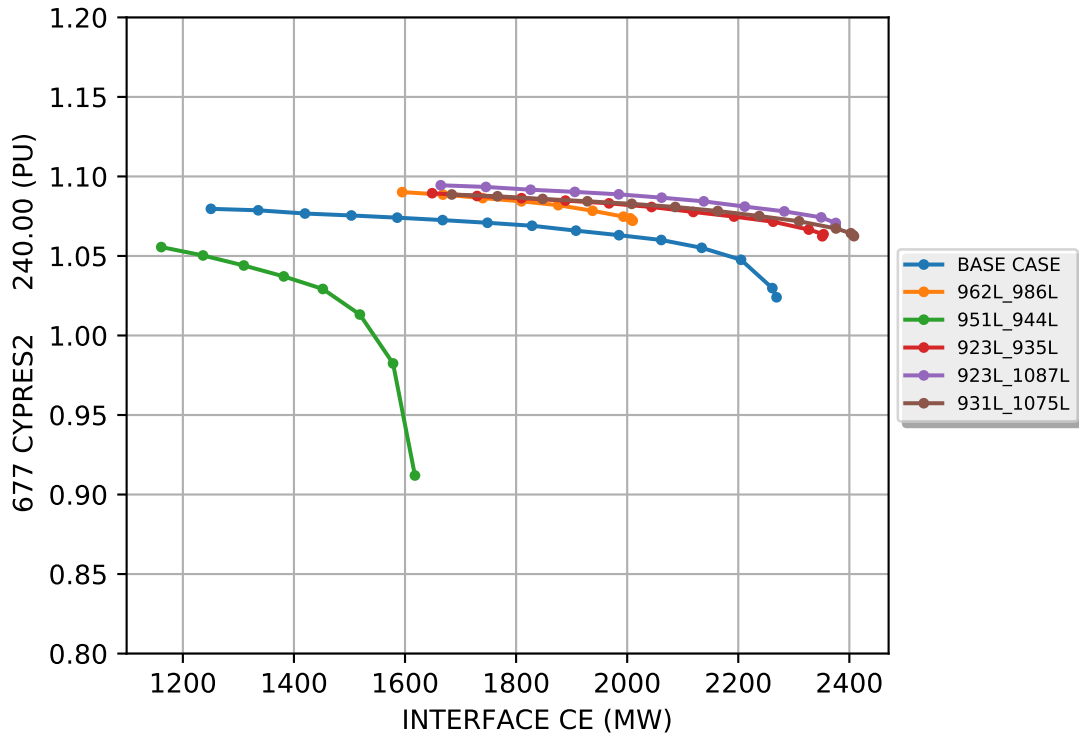


Figure: E-6-198

Case: H5, Option: BOTHC2

Min Voltage: 0.91 PU, Min Margin: 26.0%

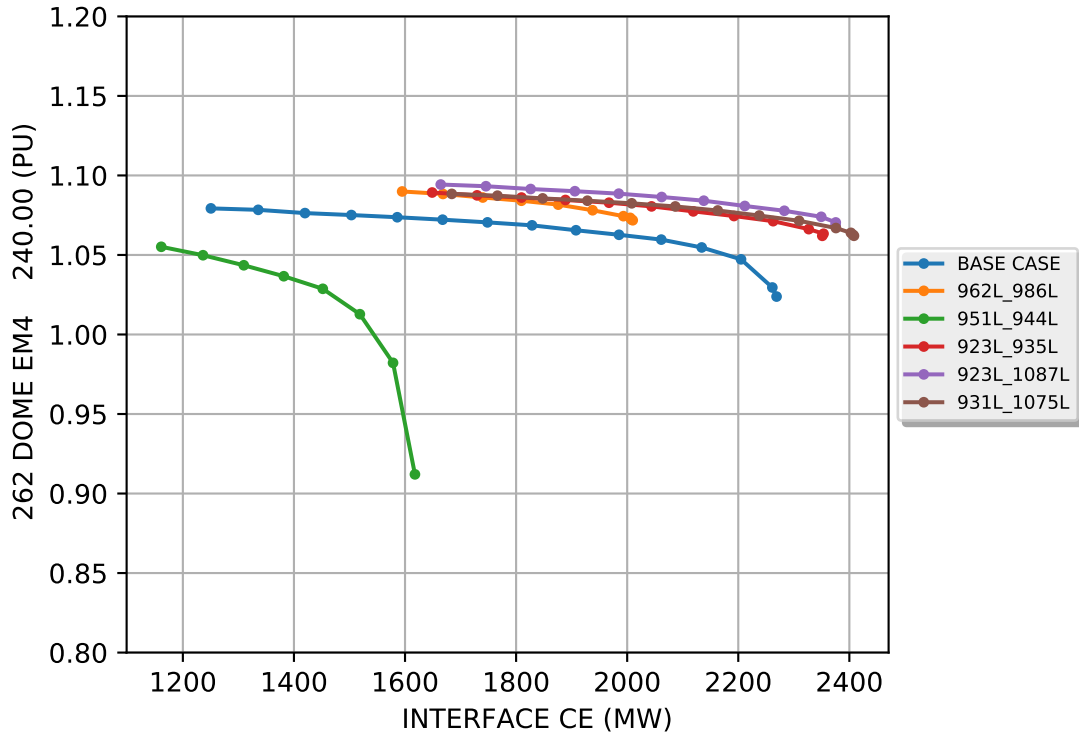


Figure: E-6-199

Case: H5, Option: BOTHC2

Min Voltage: 0.95 PU, Min Margin: 26.0%

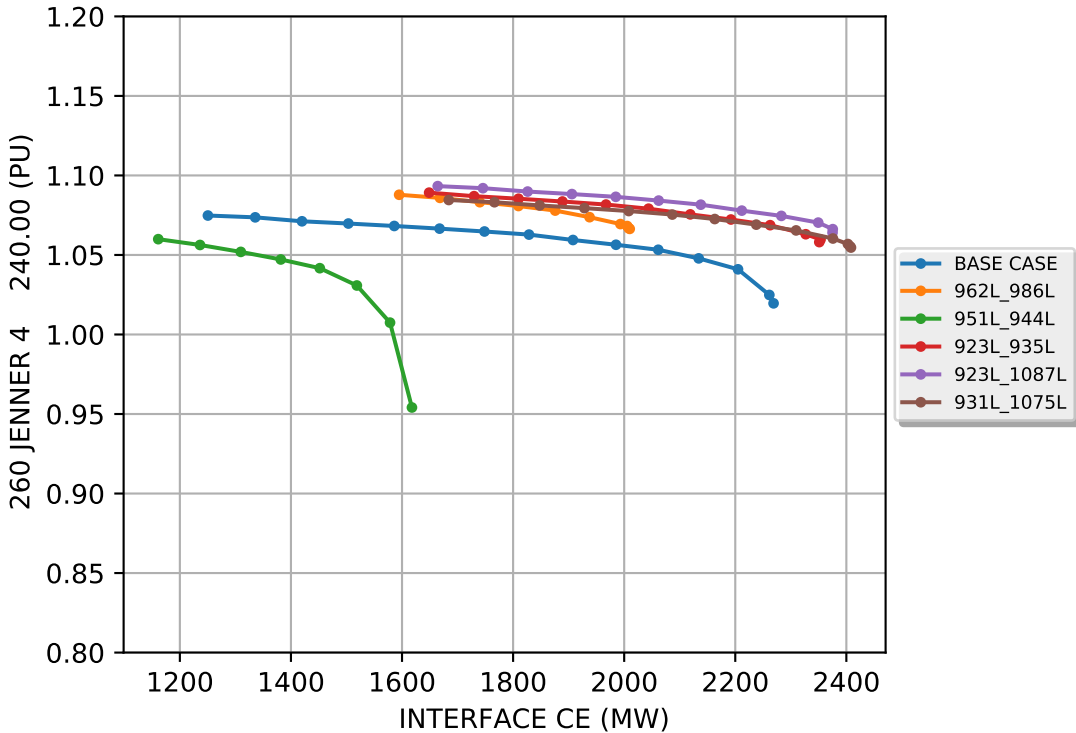


Figure: E-6-200

Case: H5, Option: BOTHC2

Min Voltage: 0.97 PU, Min Margin: 26.0%

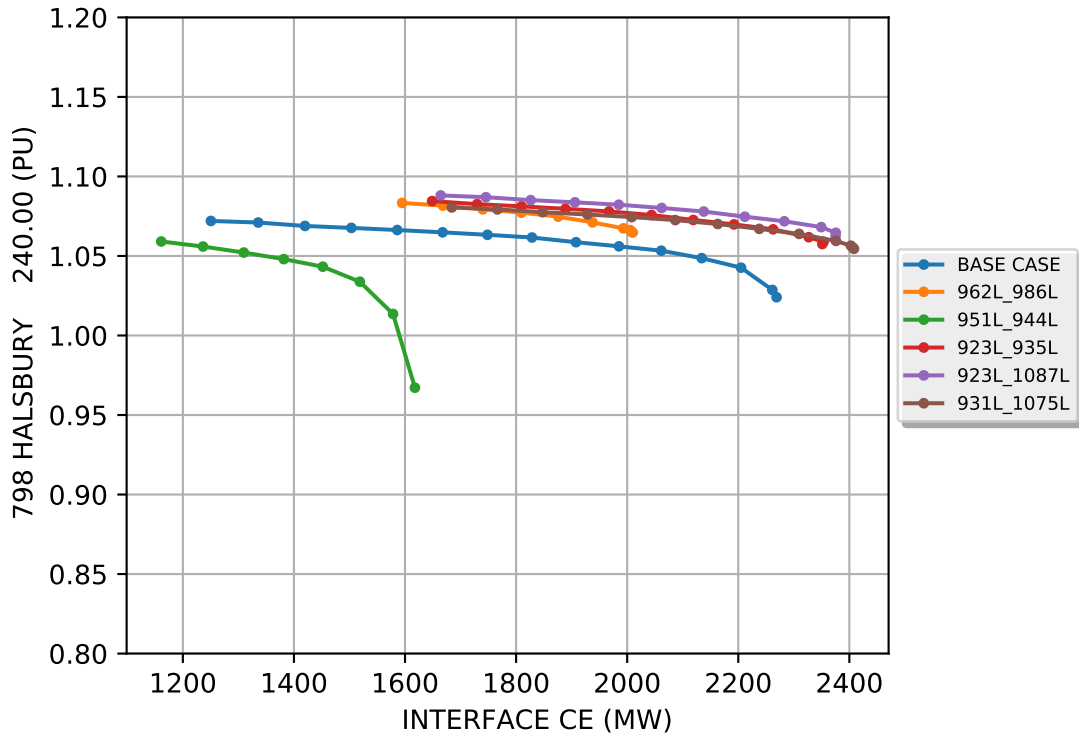


Figure: E-6-201

Case: H5, Option: BOTHC2

Min Voltage: 1.00 PU, Min Margin: 26.0%

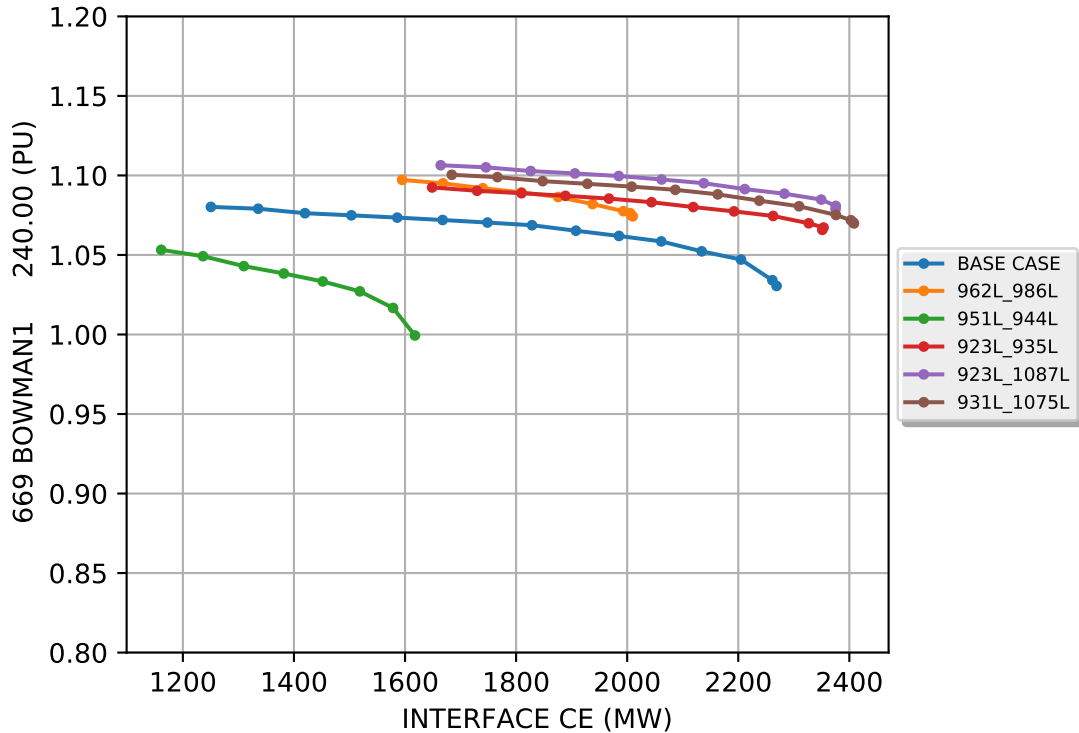


Figure: E-6-202

Case: H10, Option: BOTH2

Min Voltage: 0.84 PU, Min Margin: 30.4%

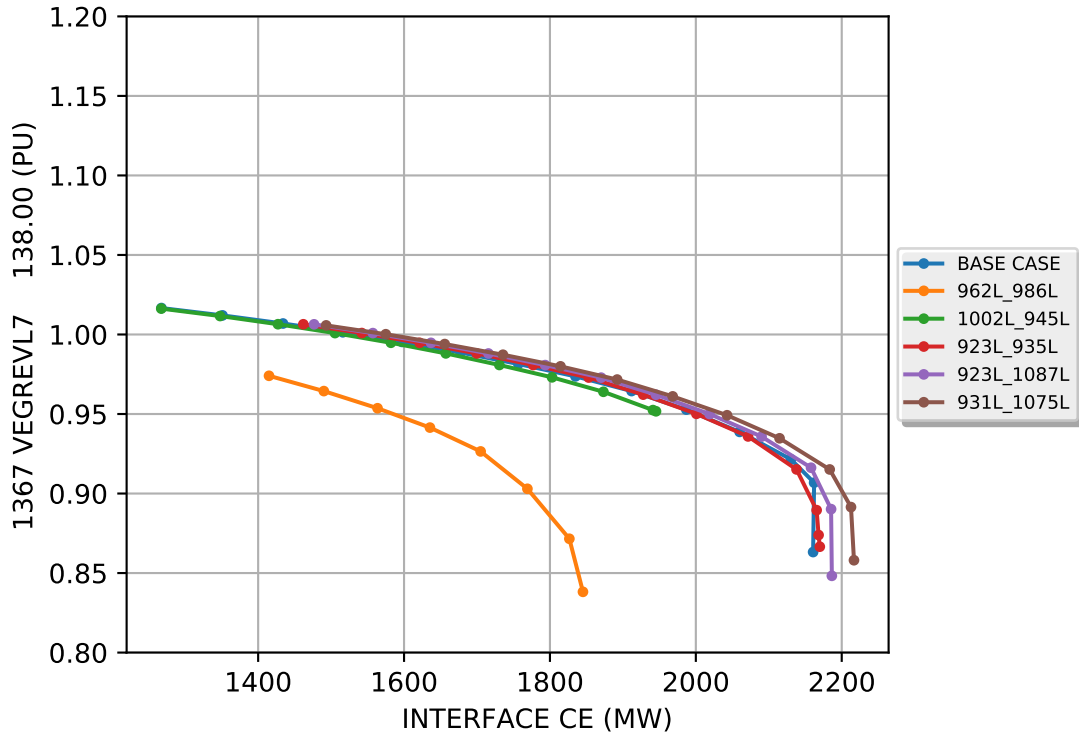


Figure: E-6-203

Case: H10, Option: BOTH2

Min Voltage: 0.87 PU, Min Margin: 30.4%

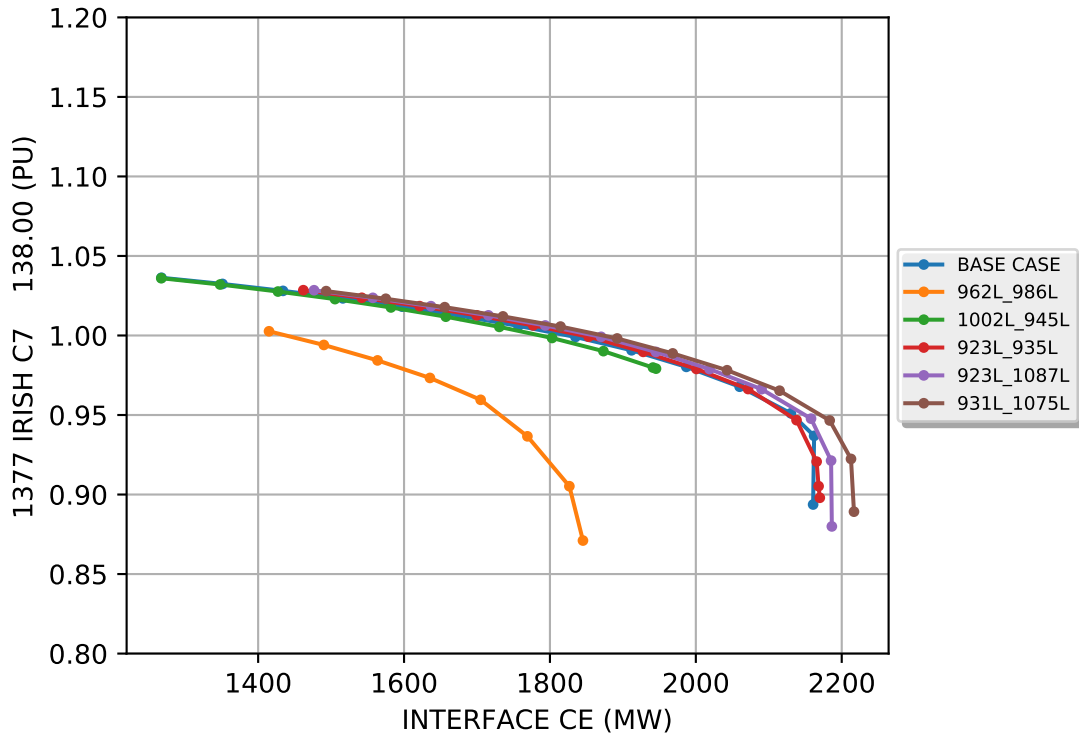


Figure: E-6-204

Case: H10, Option: BOTH2

Min Voltage: 0.84 PU, Min Margin: 30.4%

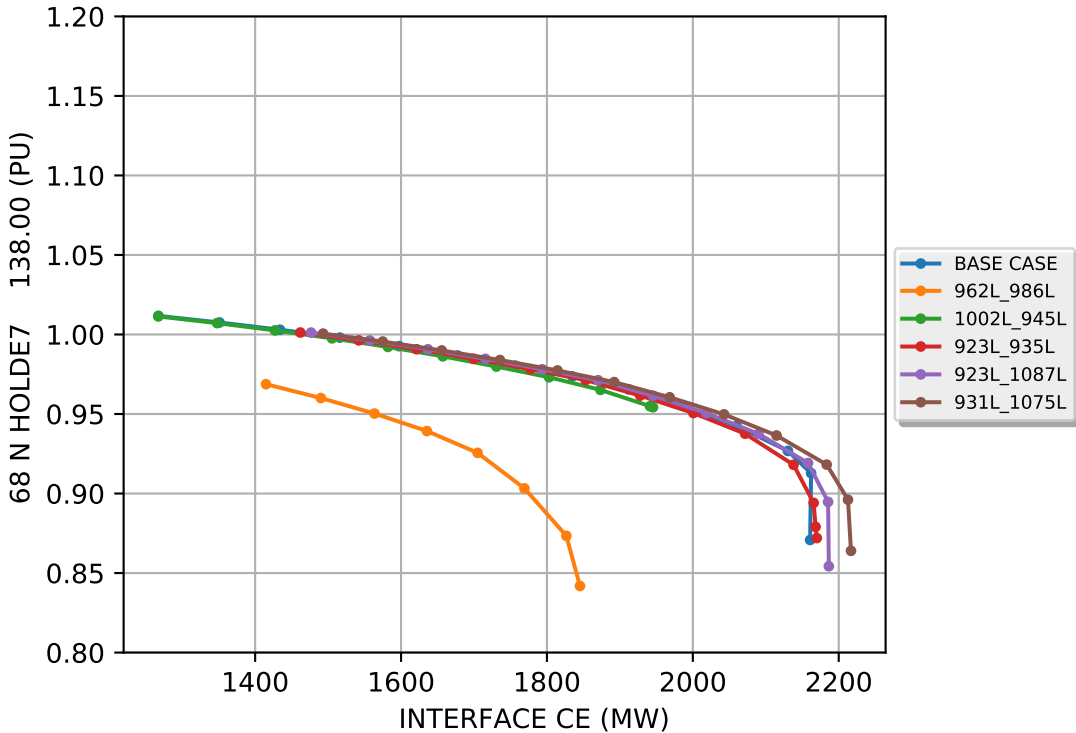


Figure: E-6-205

Case: H10, Option: BOTH2

Min Voltage: 0.91 PU, Min Margin: 30.4%

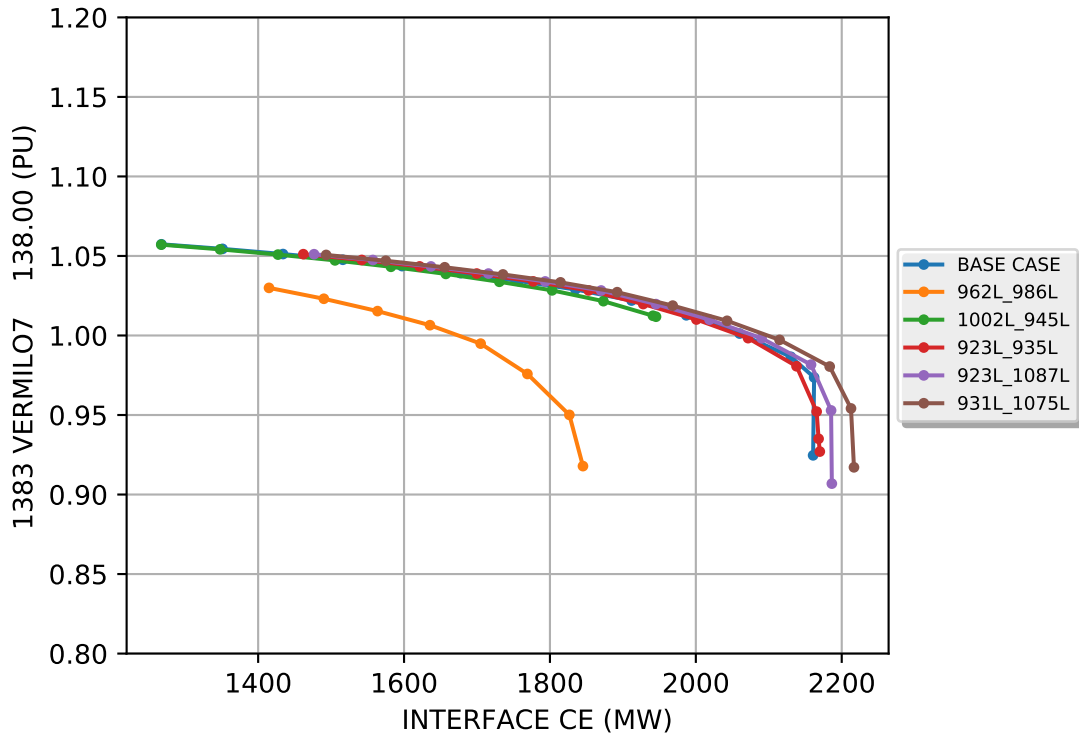


Figure: E-6-206

Case: H10, Option: BOTH2

Min Voltage: 0.91 PU, Min Margin: 30.4%

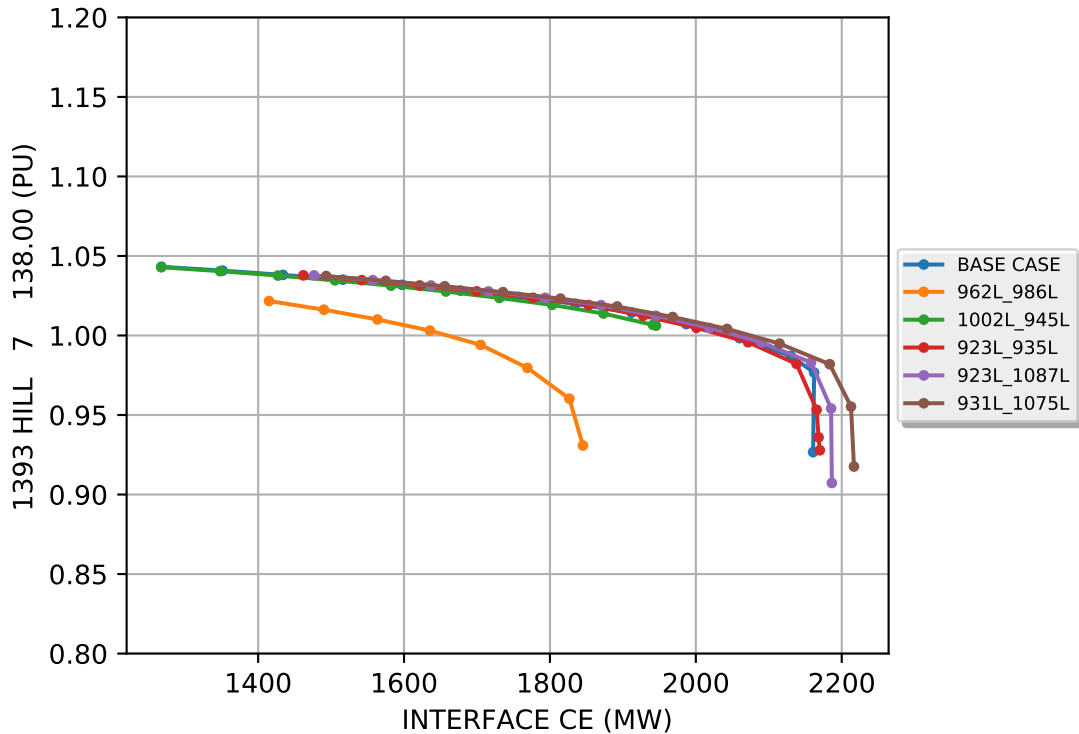


Figure: E-6-207

Case: H10, Option: BOTH2

Min Voltage: 0.91 PU, Min Margin: 30.4%

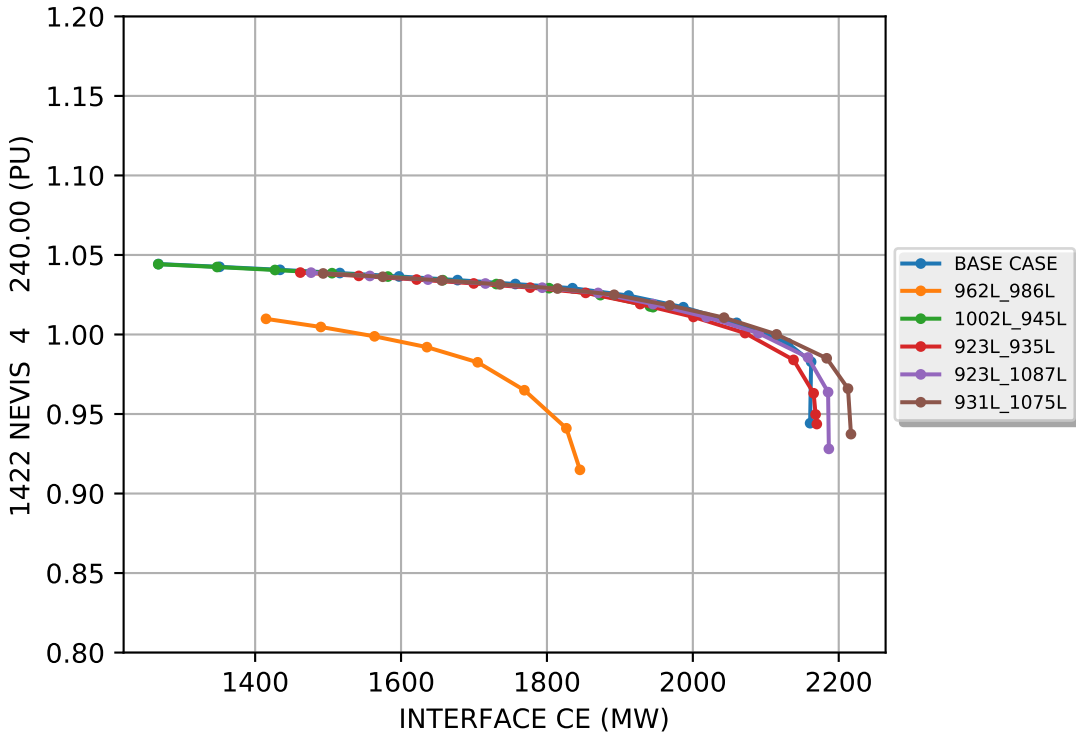


Figure: E-6-208

Case: H10, Option: BOTH2

Min Voltage: 1.05 PU, Min Margin: 30.4%

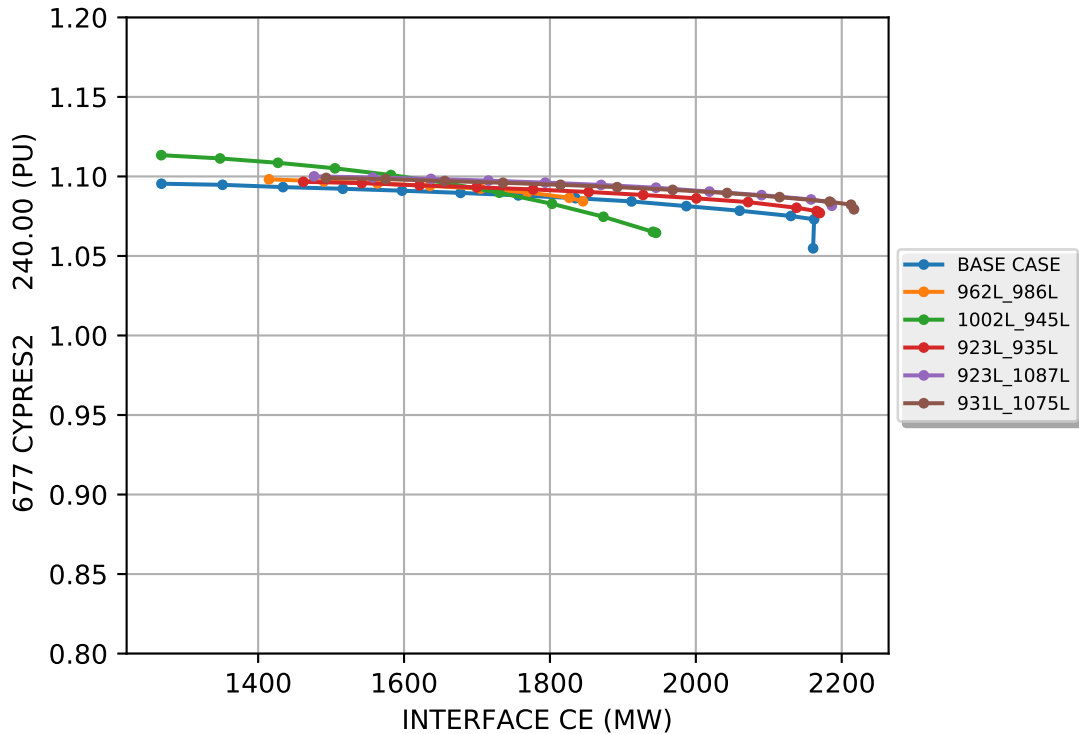


Figure: E-6-209

Case: H10, Option: BOTH2

Min Voltage: 1.05 PU, Min Margin: 30.4%

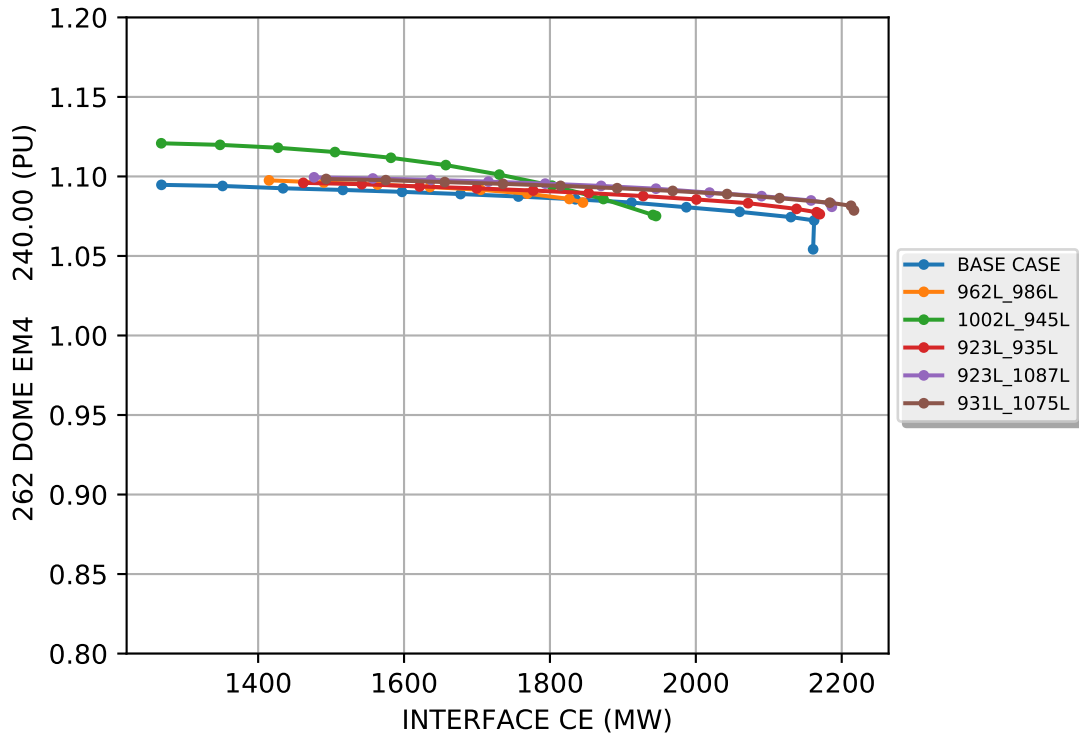


Figure: E-6-210

Case: H11, Option: BOTH2

Min Voltage: 0.82 PU, Min Margin: 21.5%

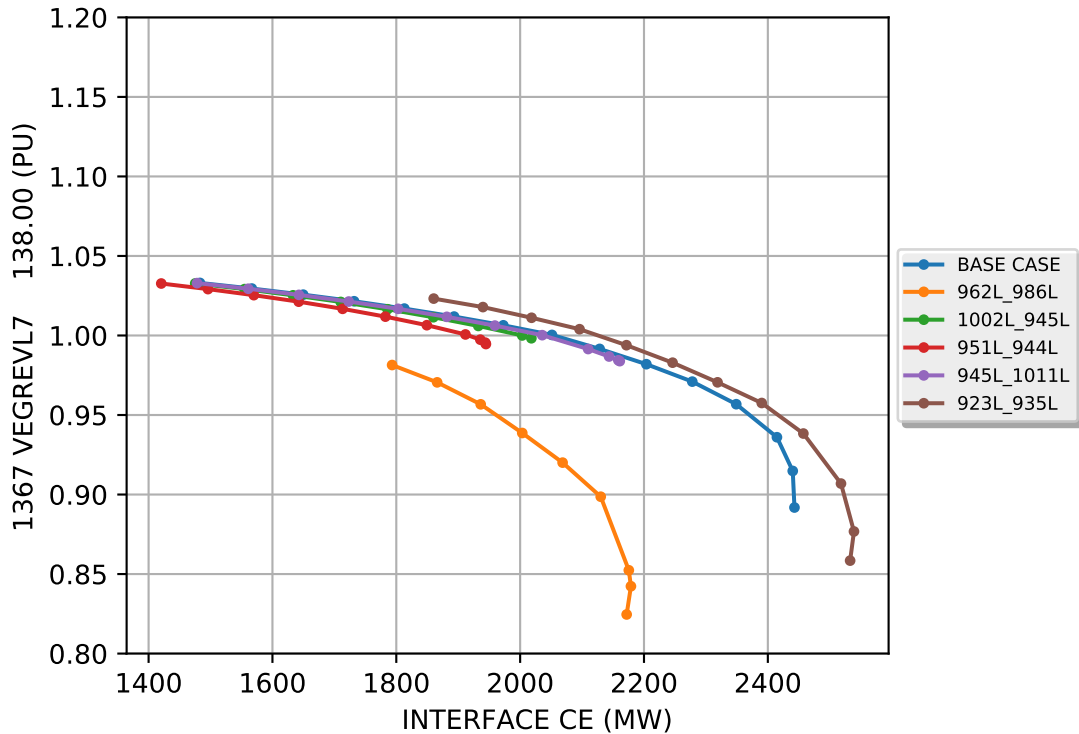


Figure: E-6-211

Case: H11, Option: BOTH2

Min Voltage: 0.83 PU, Min Margin: 21.5%

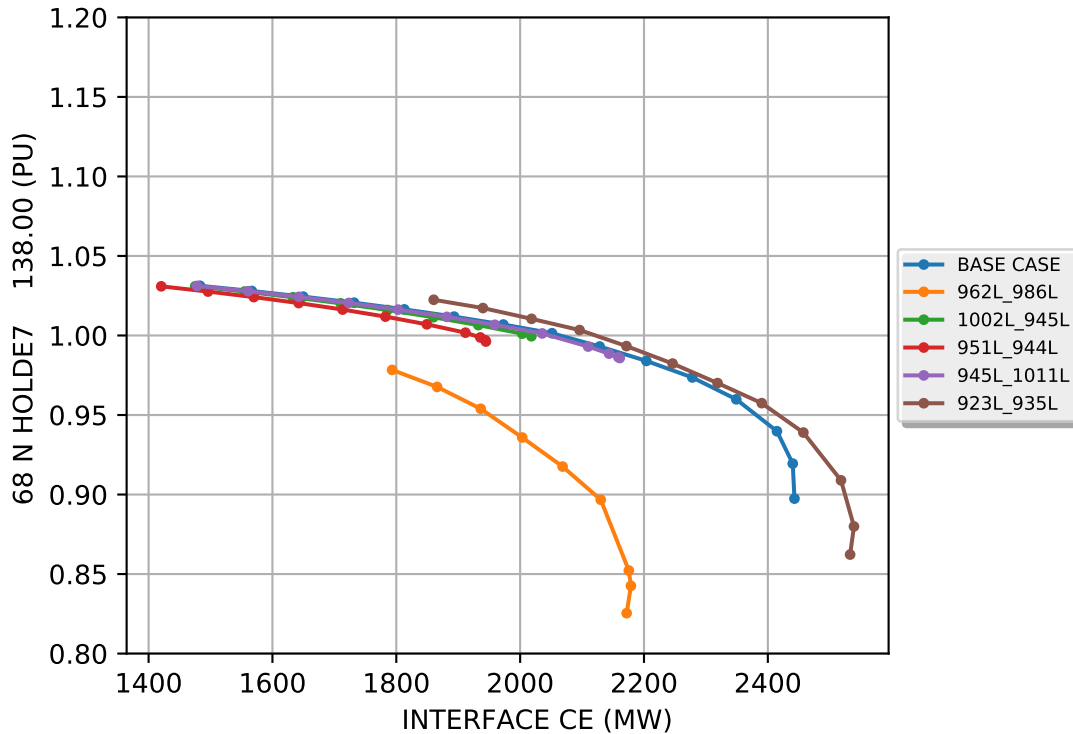


Figure: E-6-212

Case: H11, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 21.5%

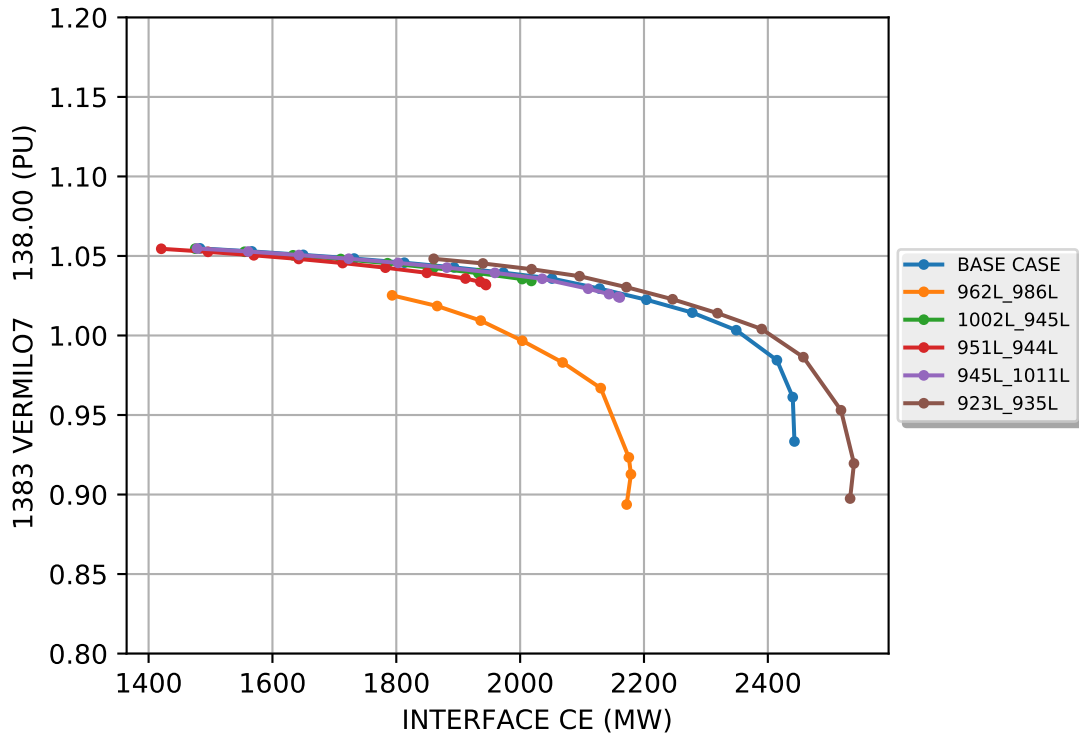


Figure: E-6-213

Case: H11, Option: BOTH2

Min Voltage: 0.88 PU, Min Margin: 21.5%

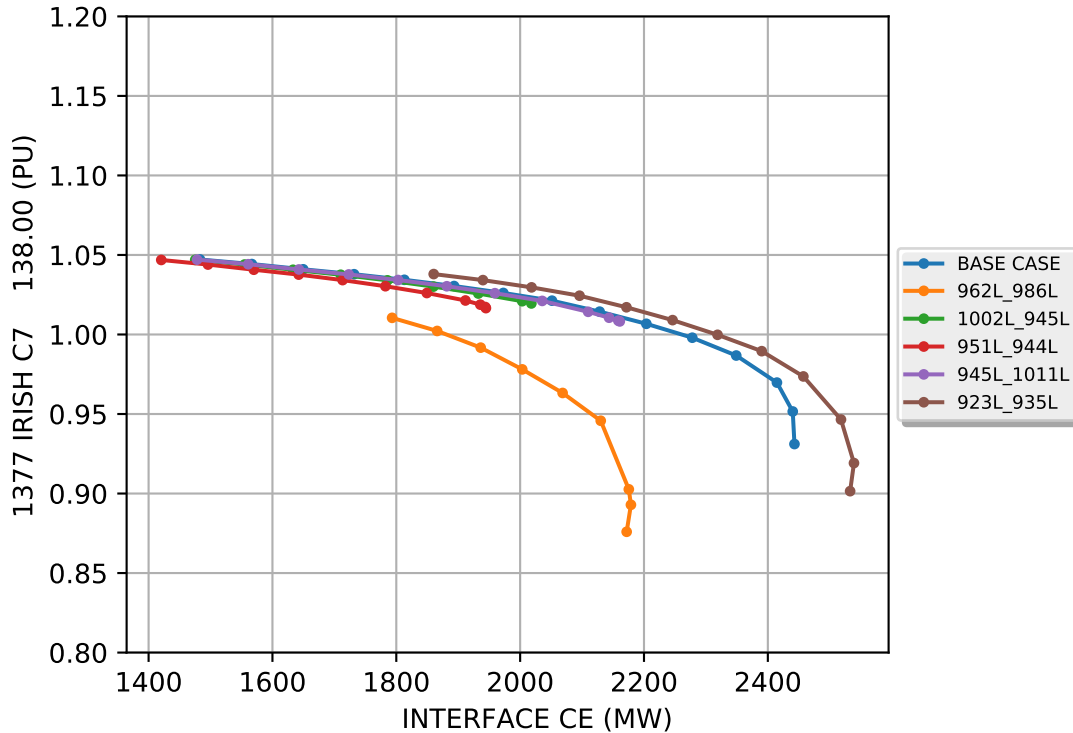


Figure: E-6-214

Case: H11, Option: BOTH2

Min Voltage: 0.88 PU, Min Margin: 21.5%

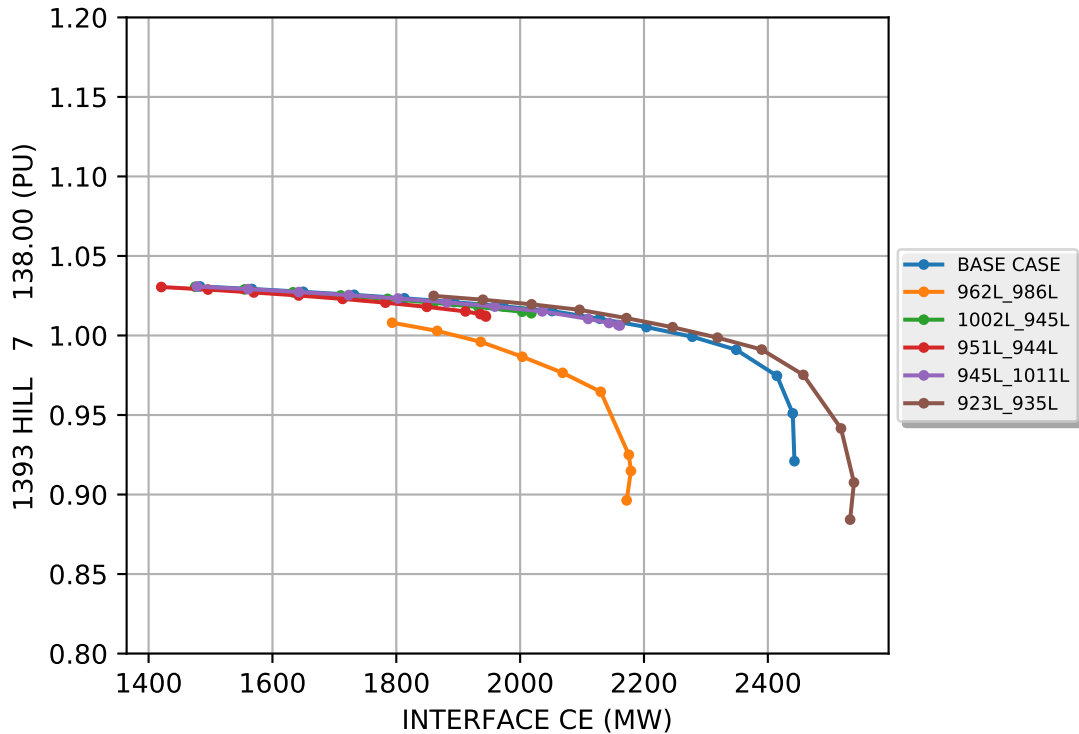


Figure: E-6-215

Case: H11, Option: BOTH2

Min Voltage: 0.87 PU, Min Margin: 21.5%

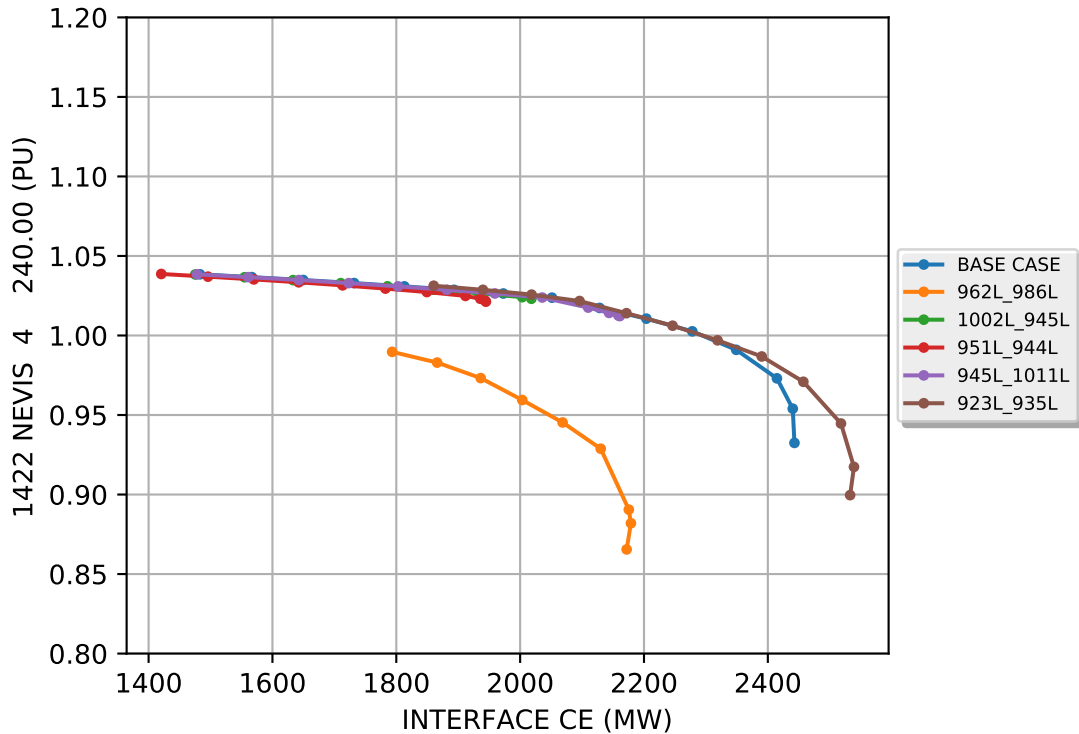


Figure: E-6-216

Case: H11, Option: BOTH2

Min Voltage: 0.91 PU, Min Margin: 21.5%

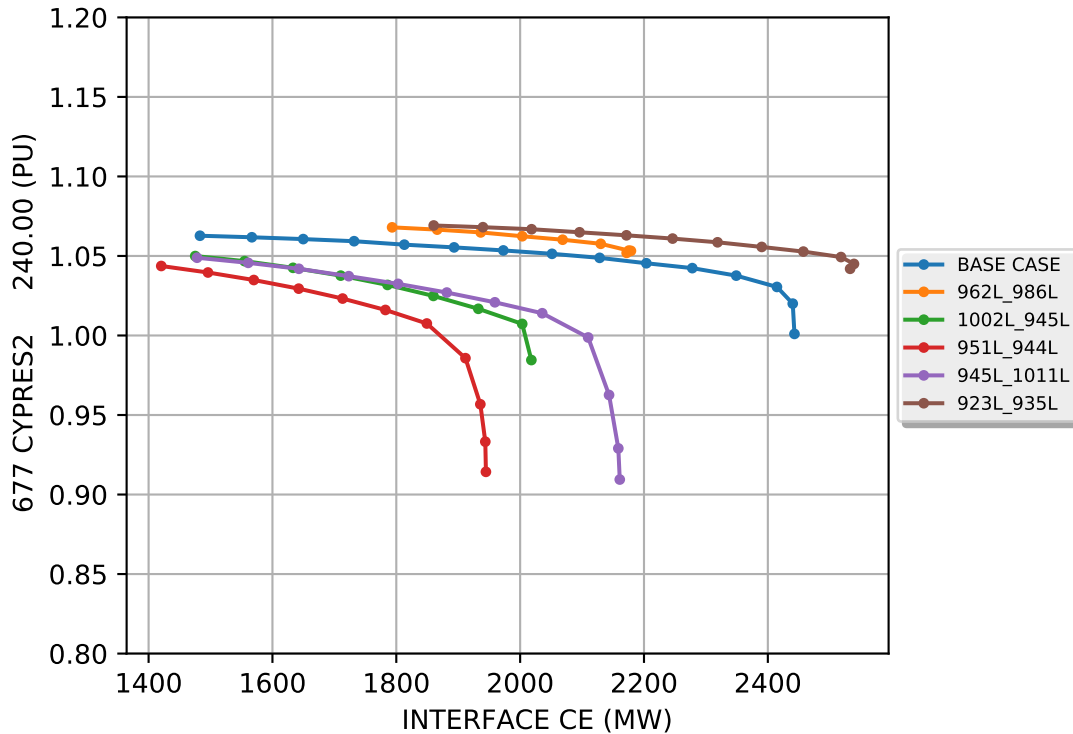


Figure: E-6-217

Case: H11, Option: BOTH2

Min Voltage: 0.91 PU, Min Margin: 21.5%

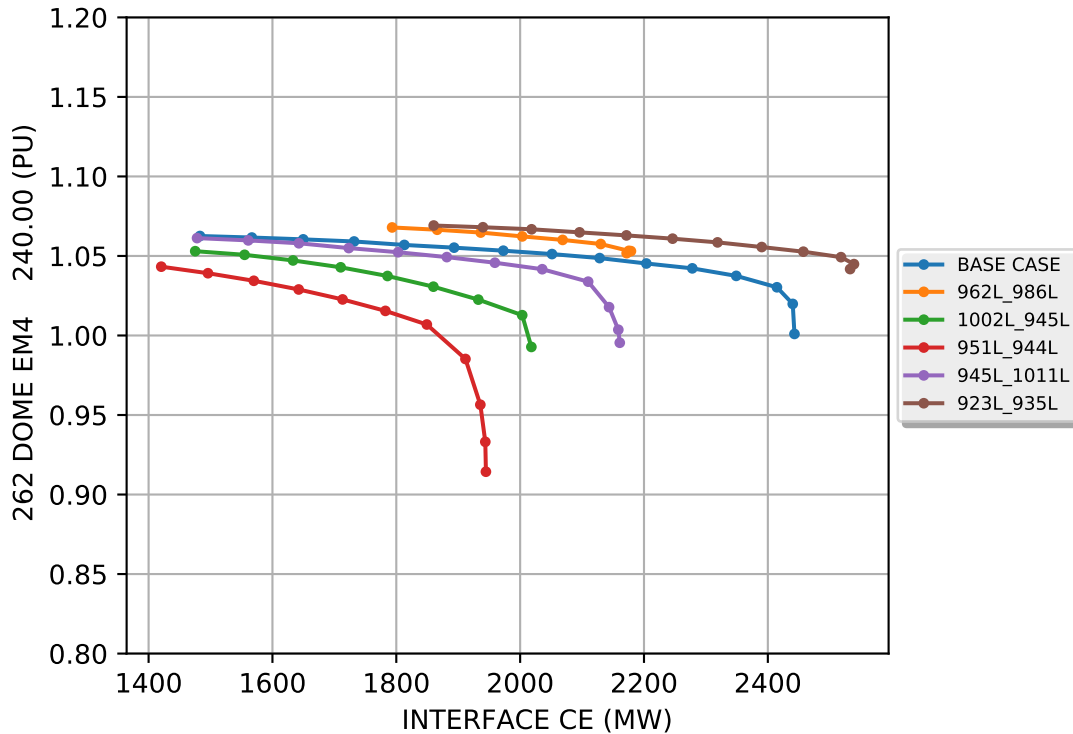


Figure: E-6-218

Case: H11, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 21.5%

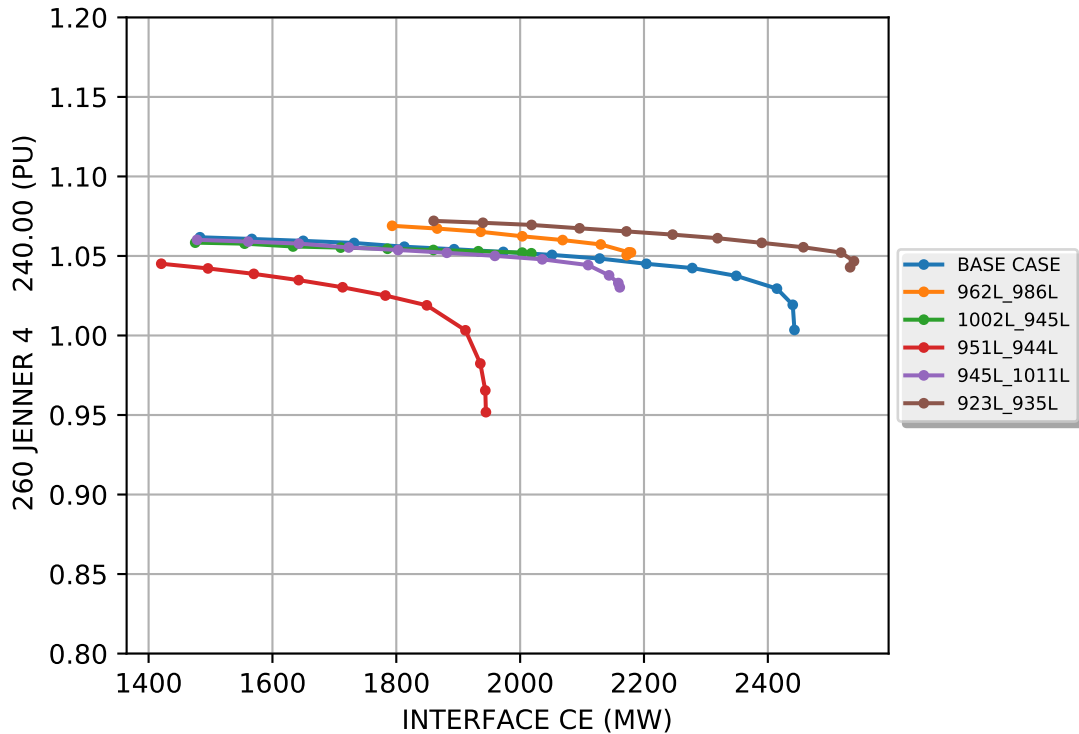


Figure: E-6-219

Case: H11, Option: BOTH2

Min Voltage: 0.97 PU, Min Margin: 21.5%

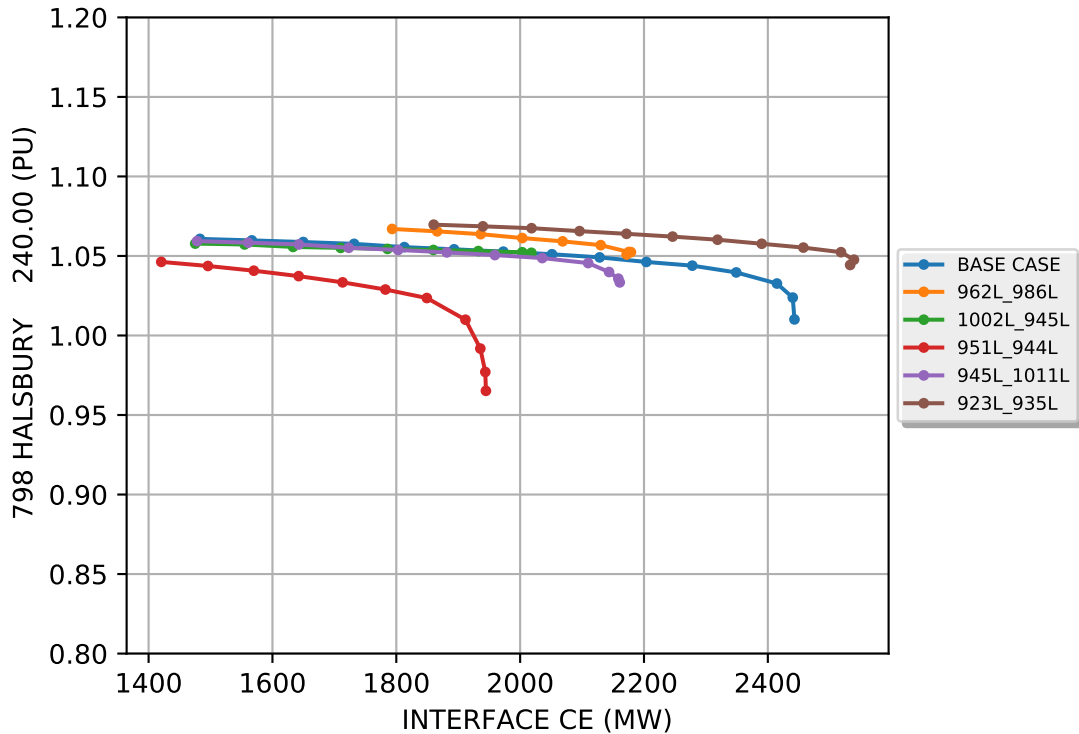


Figure: E-6-220

Case: H11, Option: BOTH2

Min Voltage: 1.01 PU, Min Margin: 21.5%

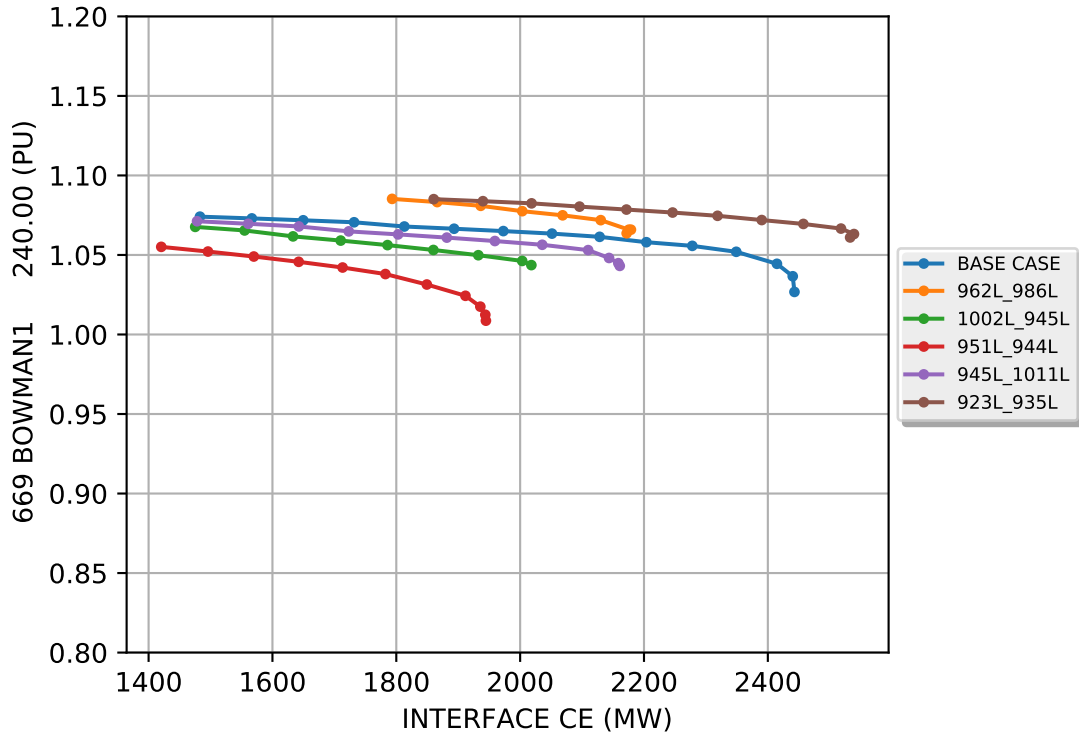


Figure: E-6-221

Case: H11, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 21.5%

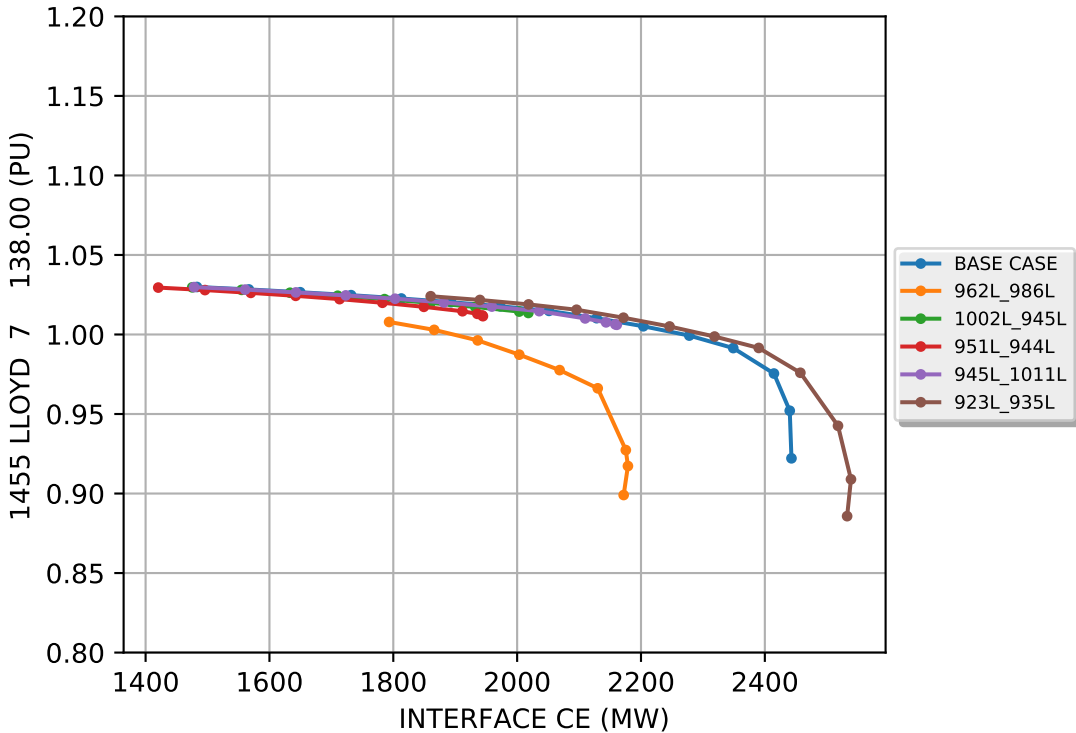


Figure: E-6-222

Case: H7, Option: BOTHC2

Min Voltage: 0.80 PU, Min Margin: 31.4%

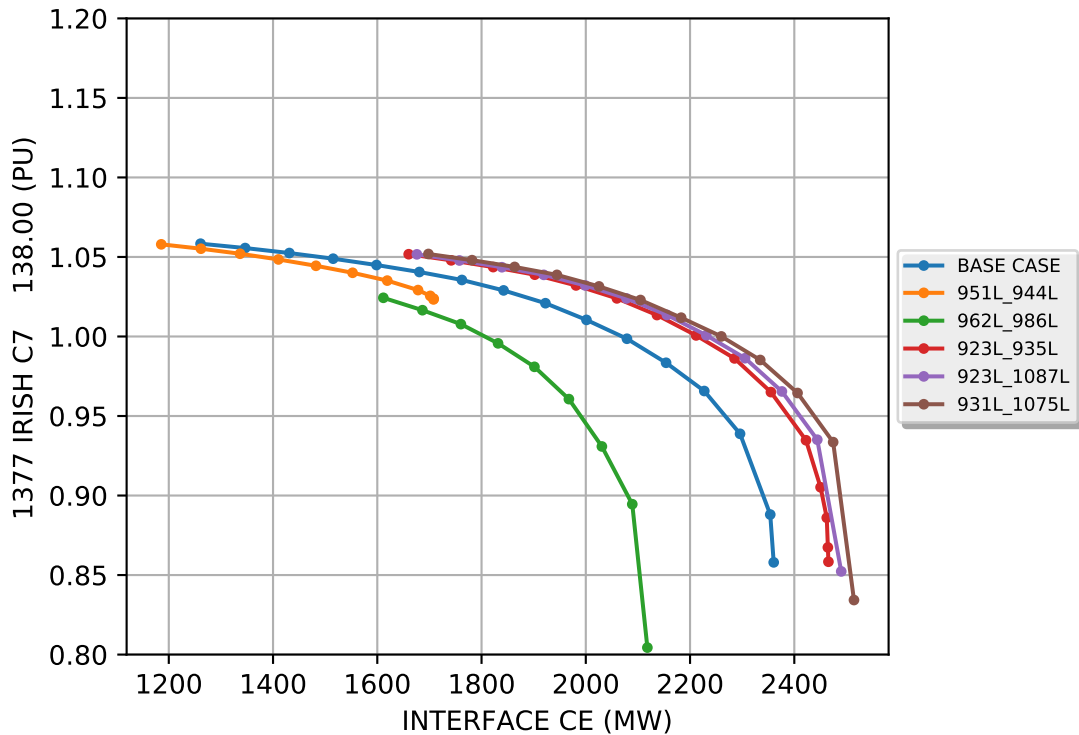


Figure: E-6-223

Case: H7, Option: BOTHC2

Min Voltage: 0.83 PU, Min Margin: 31.4%

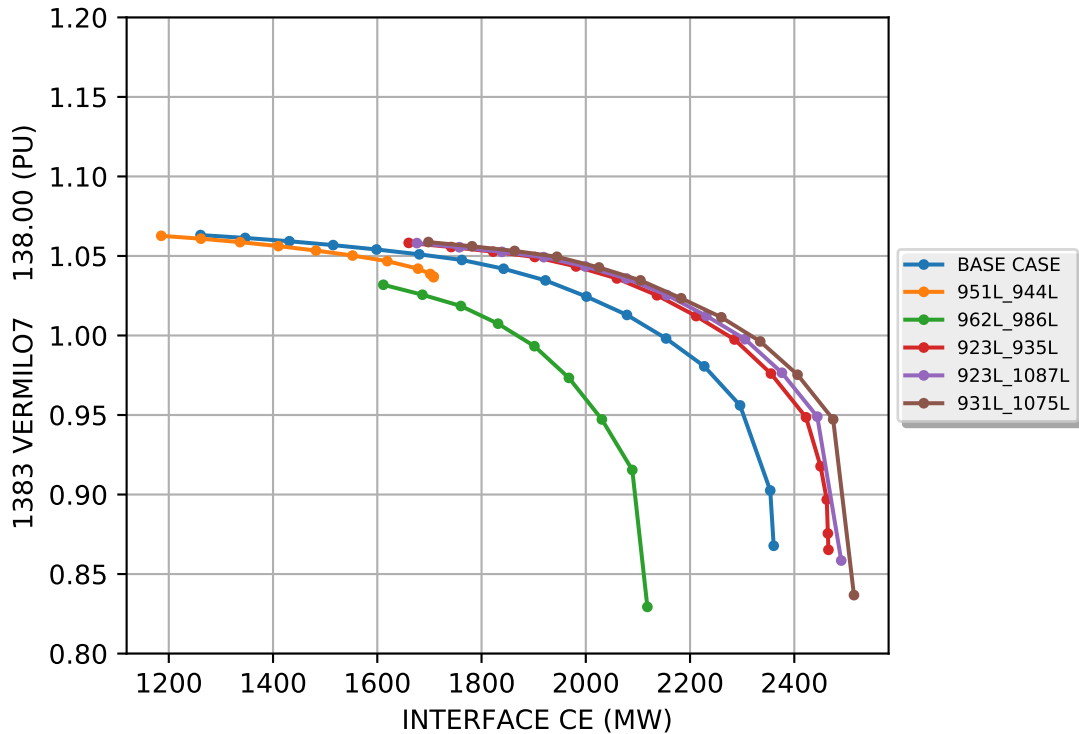


Figure: E-6-224

Case: H7, Option: BOTHC2

Min Voltage: 0.77 PU, Min Margin: 31.4%

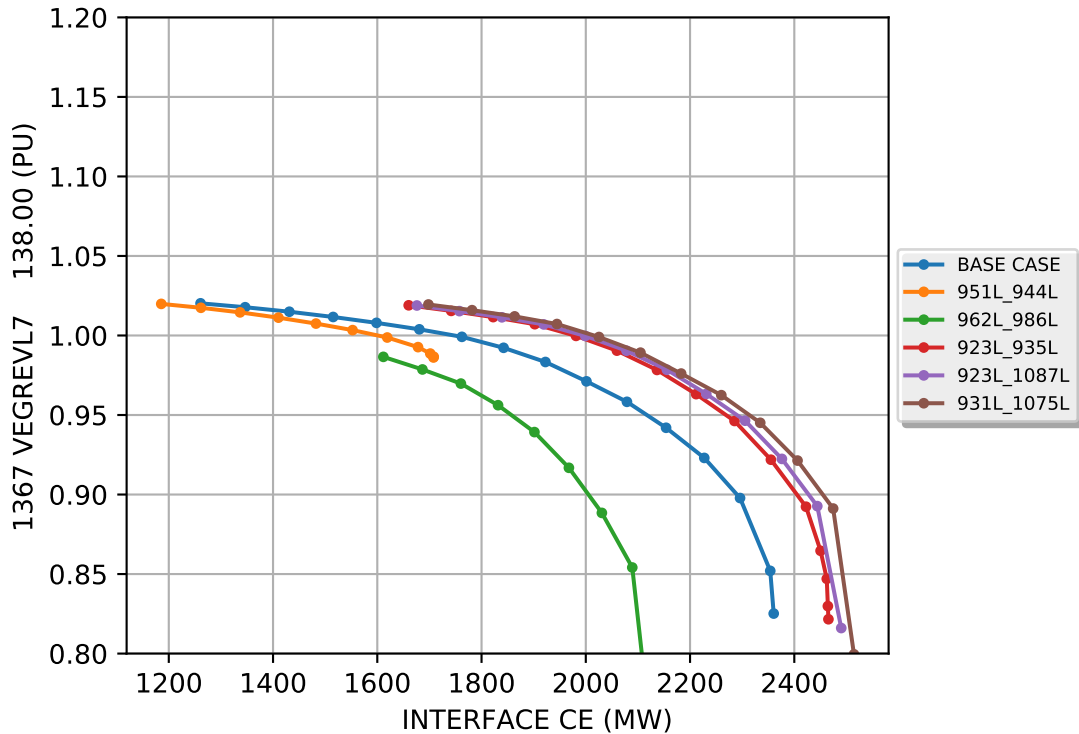


Figure: E-6-225

Case: H7, Option: BOTHC2

Min Voltage: 0.85 PU, Min Margin: 31.4%

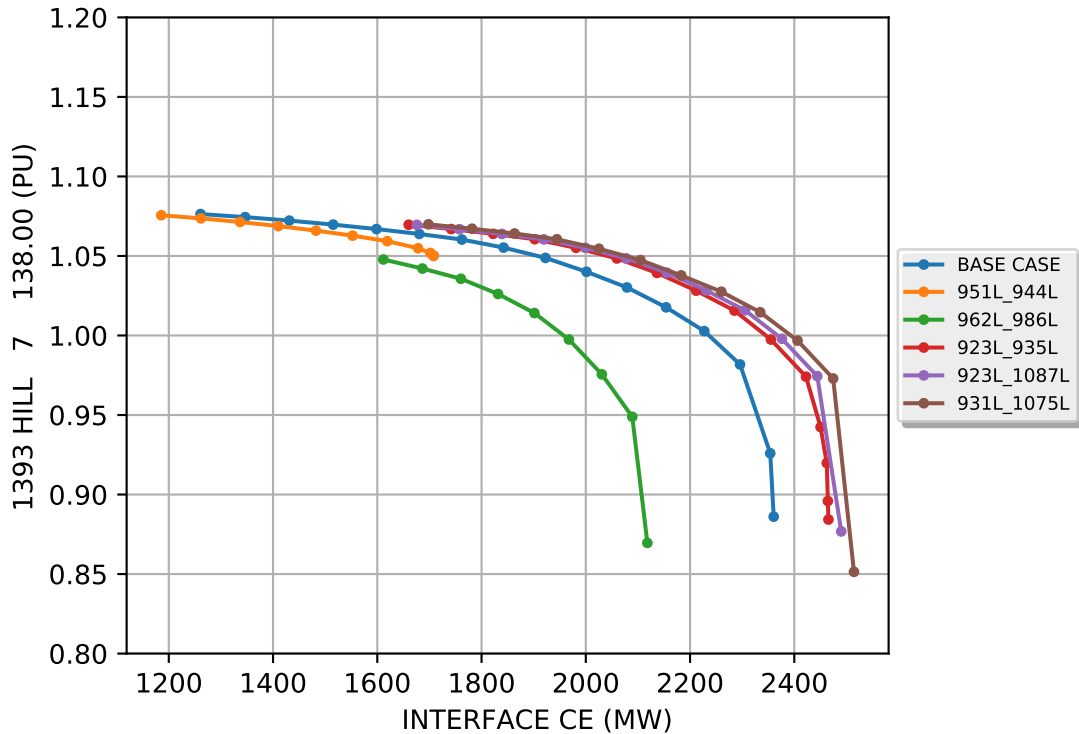


Figure: E-6-226

Case: H7, Option: BOTHC2

Min Voltage: 0.85 PU, Min Margin: 31.4%

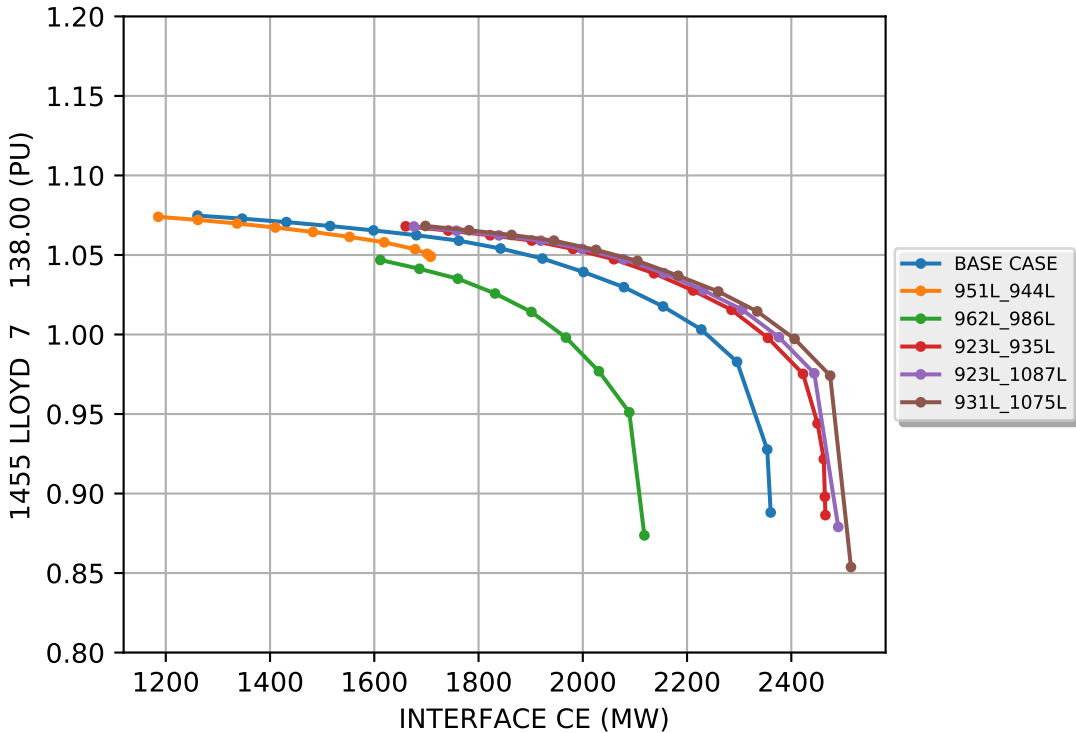


Figure: E-6-227

Case: H7, Option: BOTHC2

Min Voltage: 0.90 PU, Min Margin: 31.4%

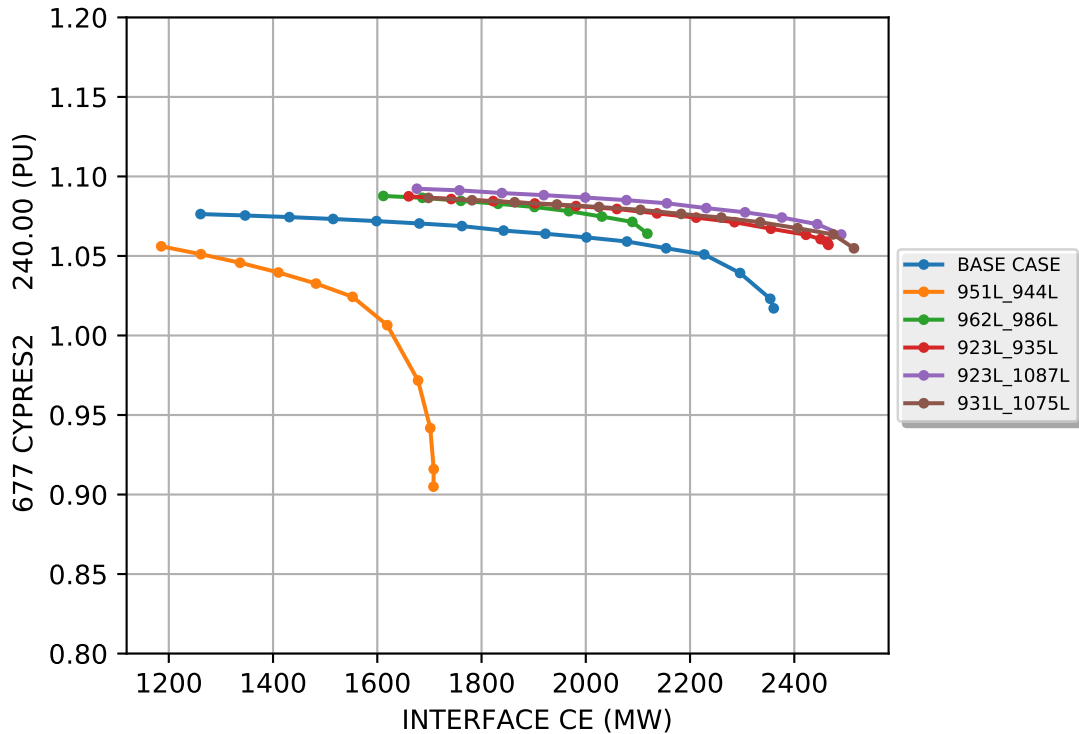


Figure: E-6-228

Case: H7, Option: BOTHC2

Min Voltage: 0.91 PU, Min Margin: 31.4%

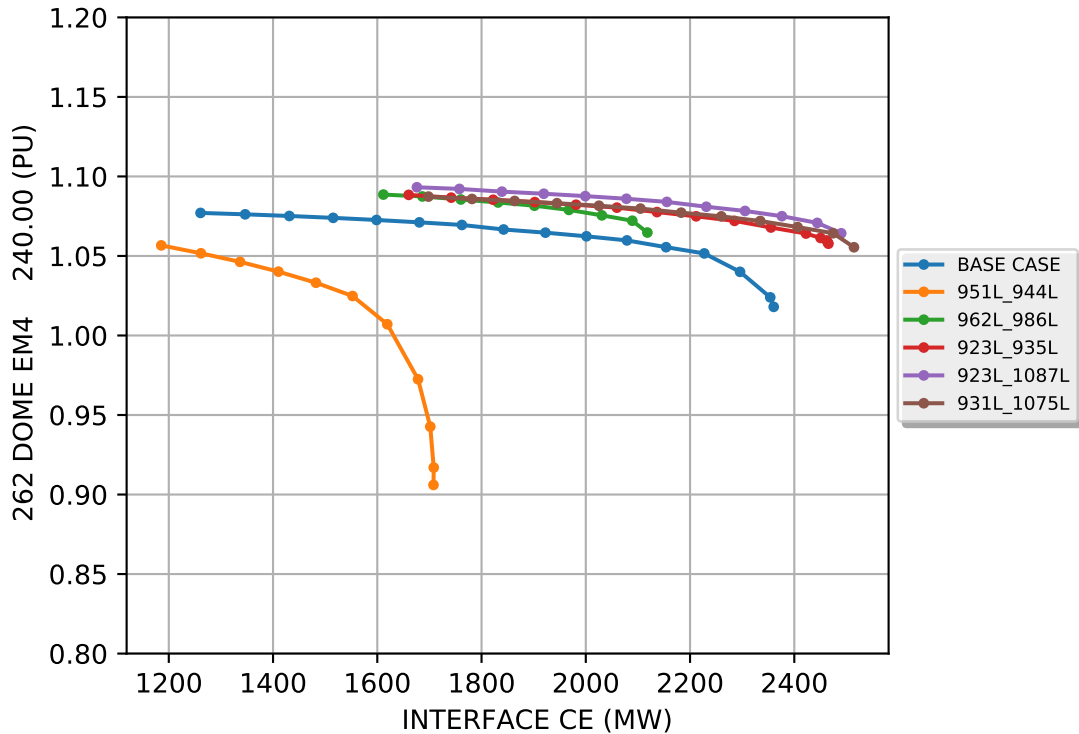


Figure: E-6-229

Case: H7, Option: BOTHC2

Min Voltage: 0.95 PU, Min Margin: 31.4%

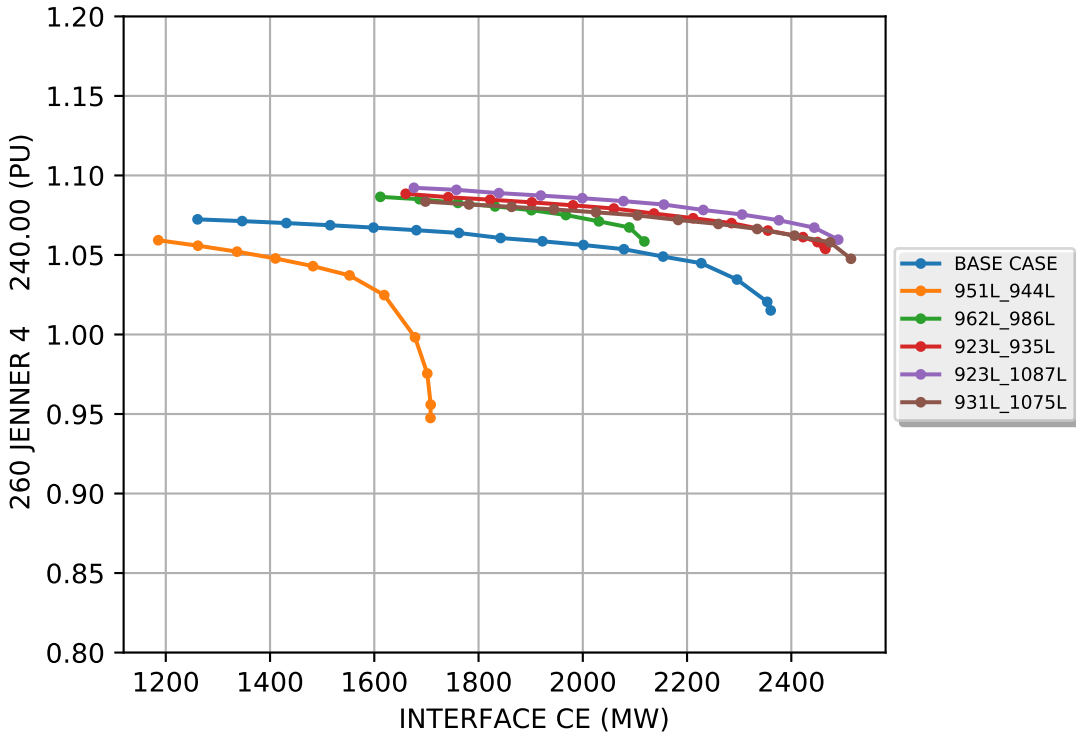


Figure: E-6-230

Case: H7, Option: BOTHC2

Min Voltage: 0.96 PU, Min Margin: 31.4%

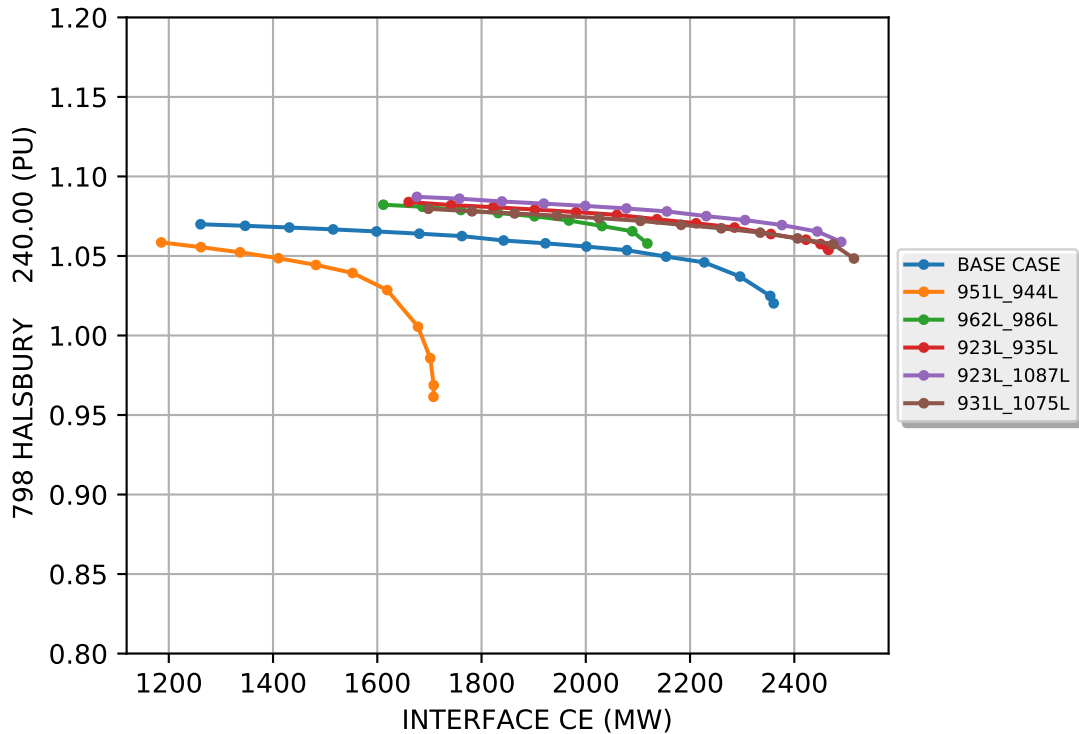


Figure: E-6-231

Case: H7, Option: BOTHC2

Min Voltage: 1.00 PU, Min Margin: 31.4%

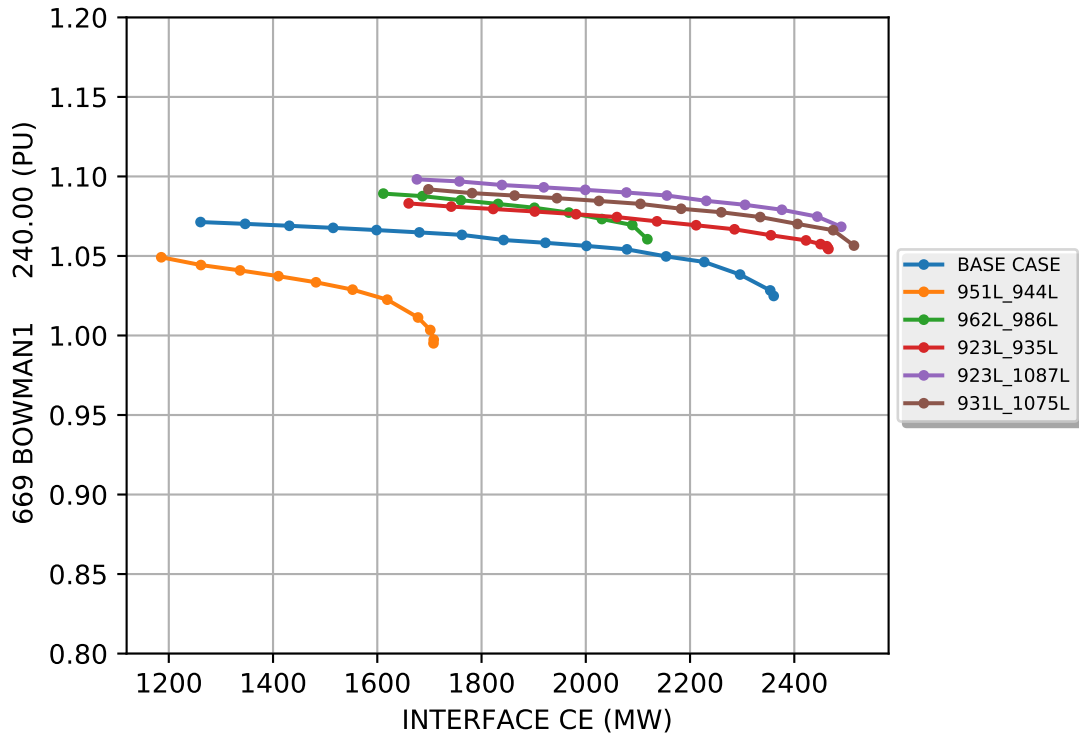


Figure: E-6-232

Case: H7, Option: BOTHC2

Min Voltage: 0.79 PU, Min Margin: 31.4%

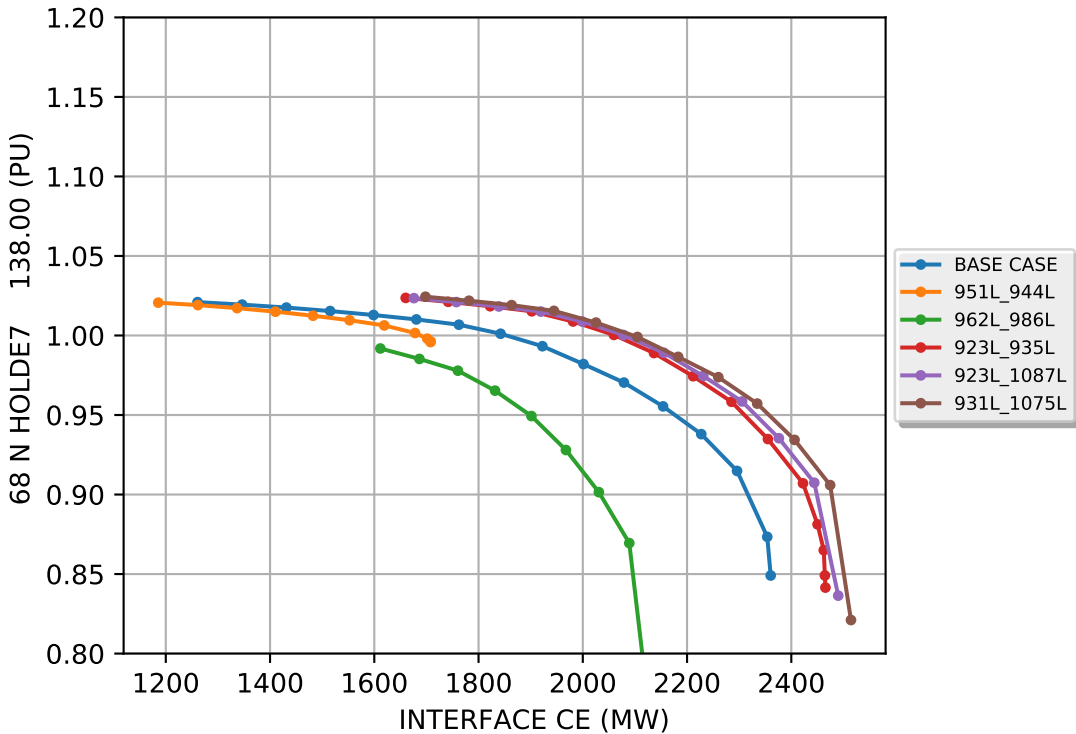


Figure: E-6-233

Case: M8, Option: BOTH2

Min Voltage: 0.81 PU, Min Margin: 34.2%

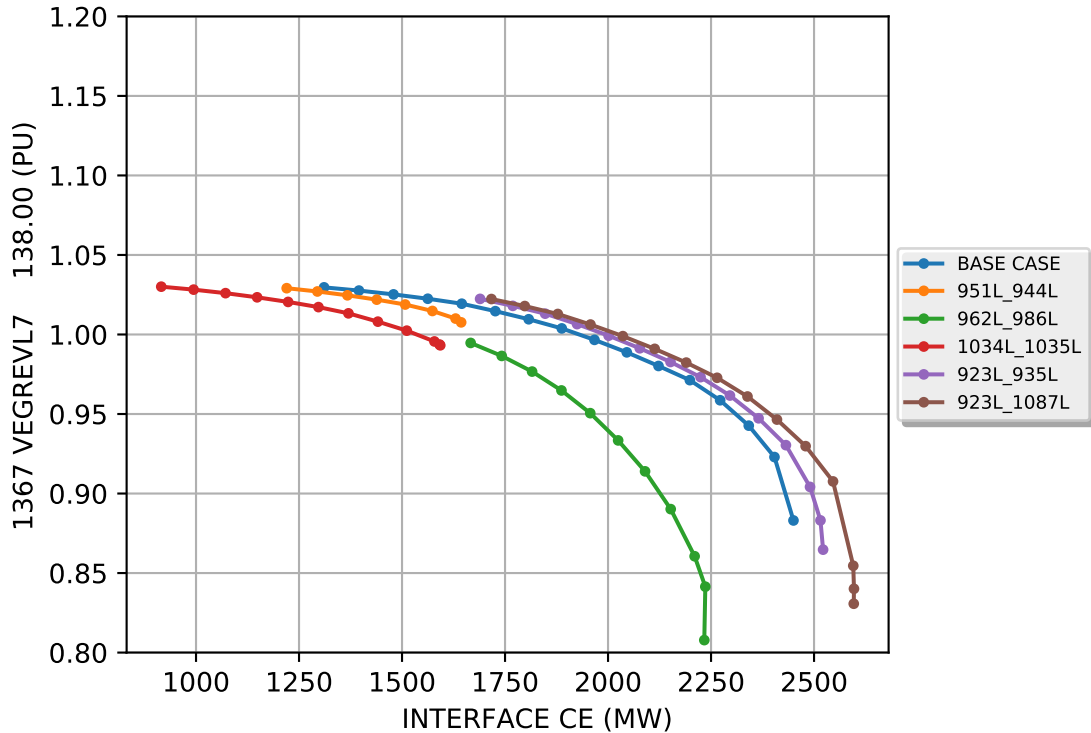


Figure: E-6-234

Case: M8, Option: BOTH2

Min Voltage: 0.87 PU, Min Margin: 34.2%

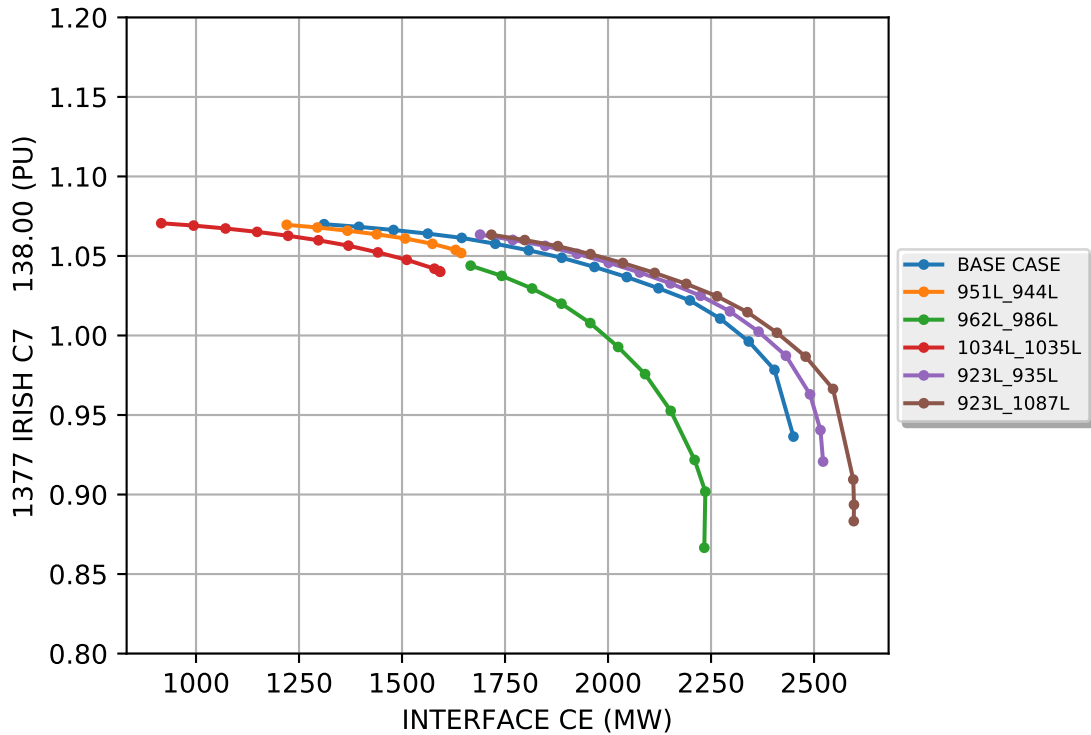


Figure: E-6-235

Case: M8, Option: BOTH2

Min Voltage: 0.82 PU, Min Margin: 34.2%

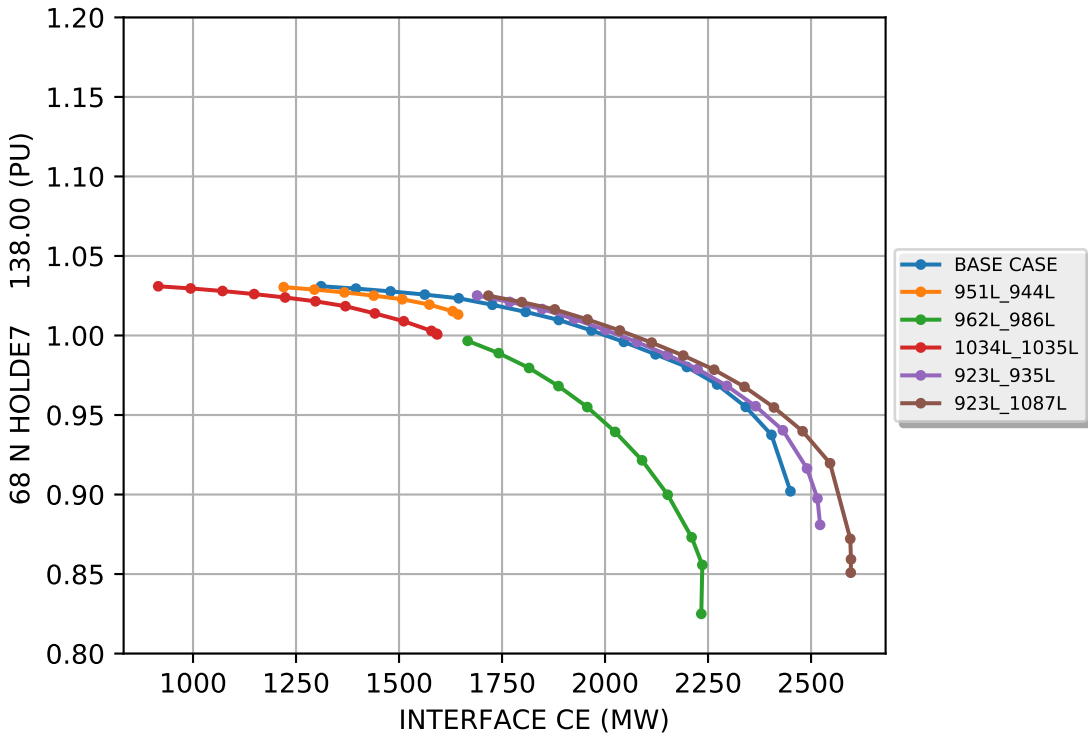


Figure: E-6-236

Case: M8, Option: BOTH2

Min Voltage: 0.88 PU, Min Margin: 34.2%

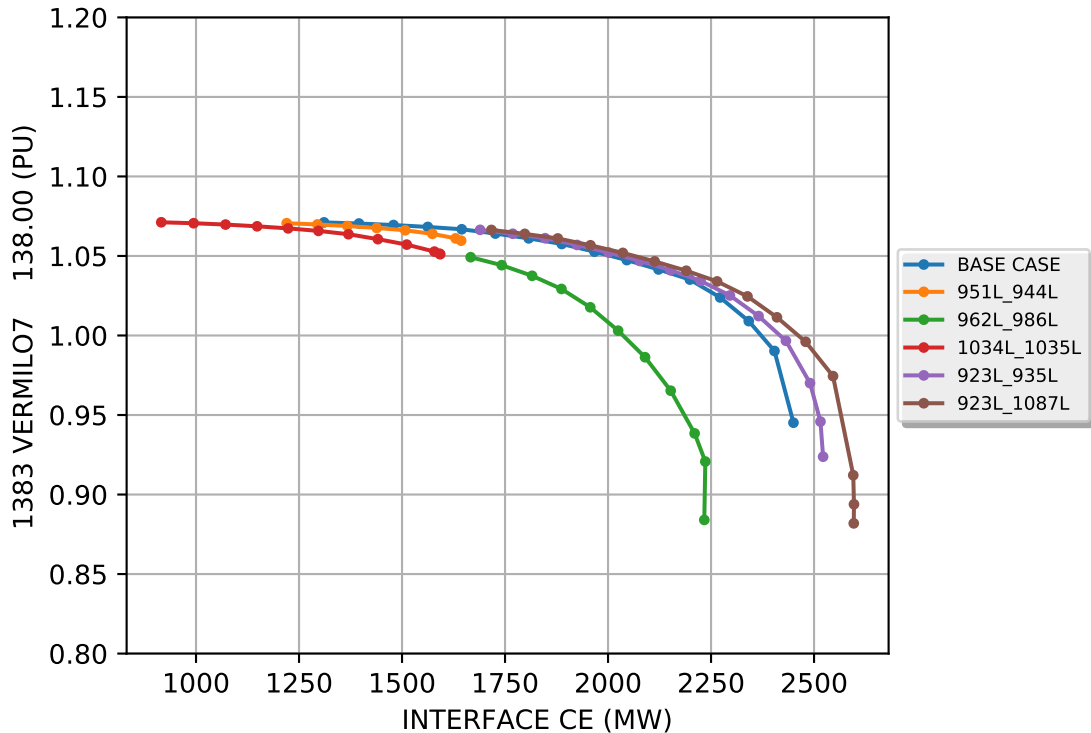


Figure: E-6-237

Case: M8, Option: BOTH2

Min Voltage: 0.93 PU, Min Margin: 34.2%

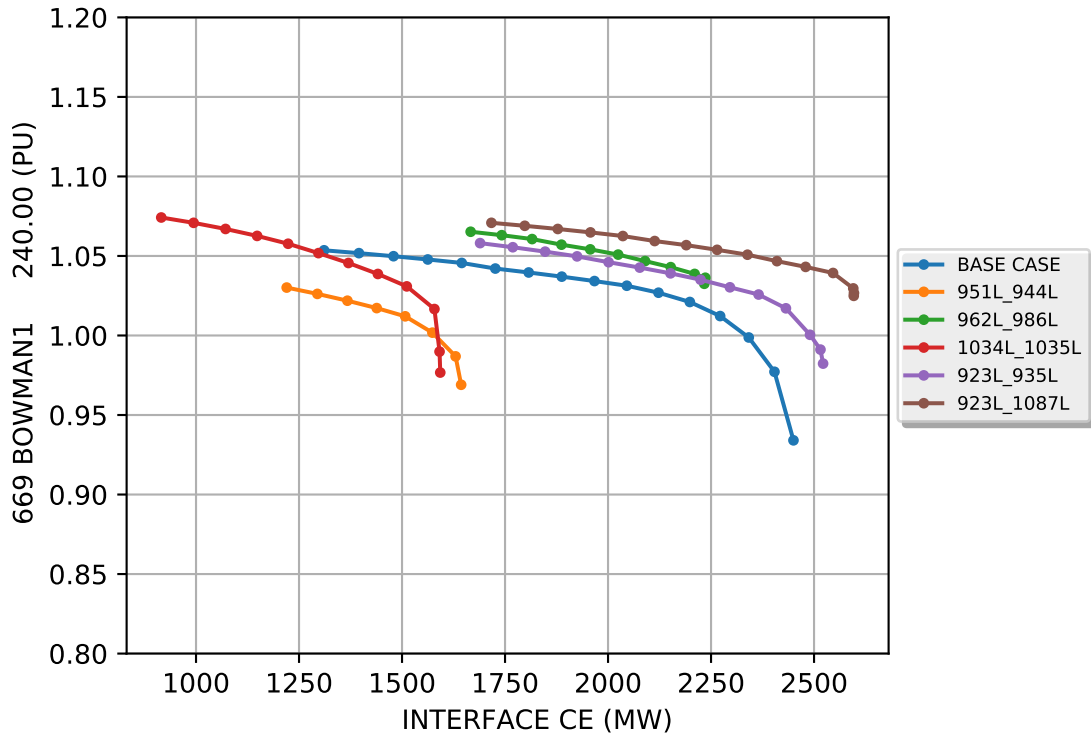


Figure: E-6-238

Case: M8, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 34.2%

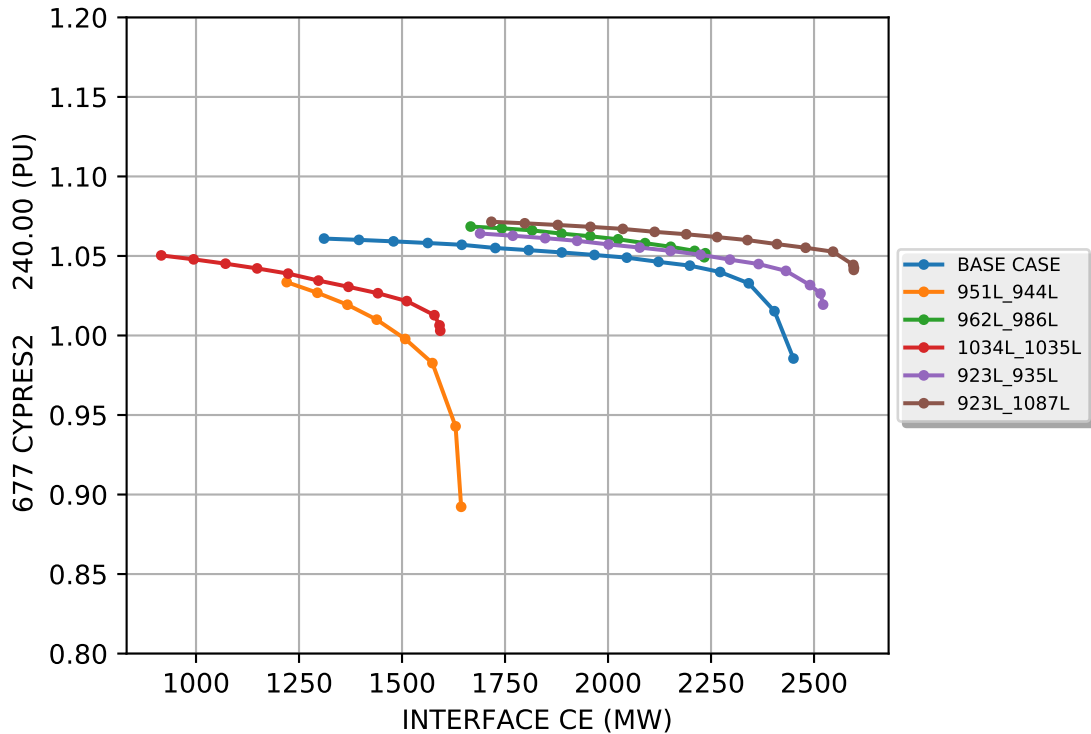


Figure: E-6-239

Case: M8, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 34.2%

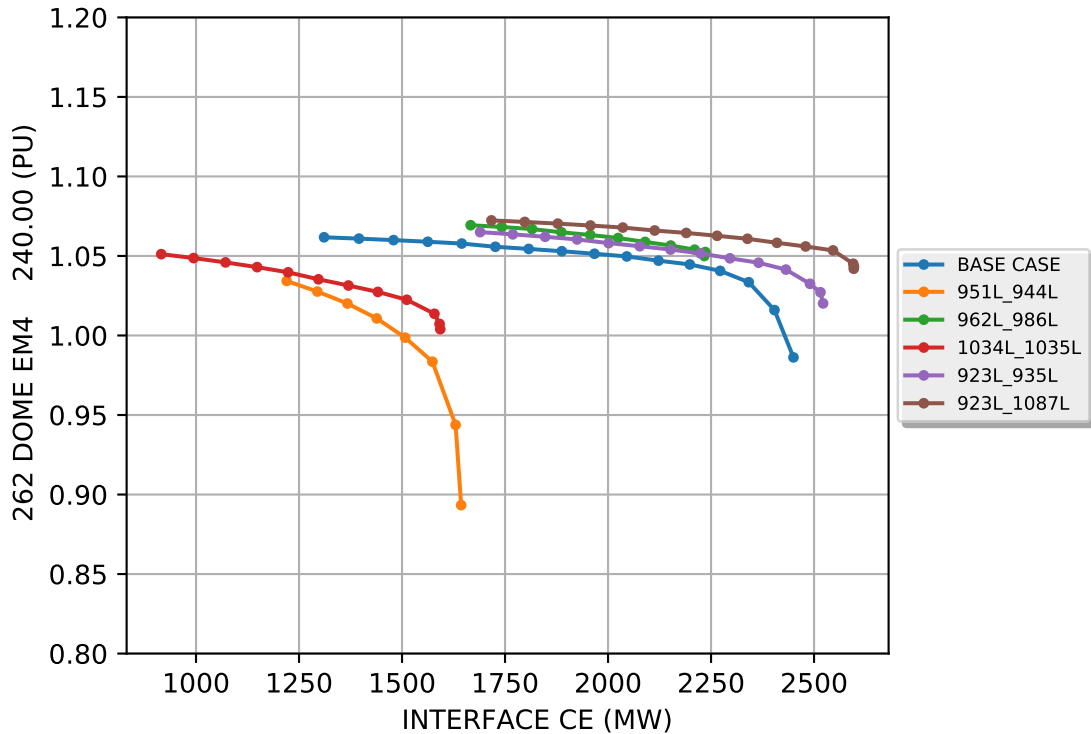


Figure: E-6-240

Case: M8, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 34.2%

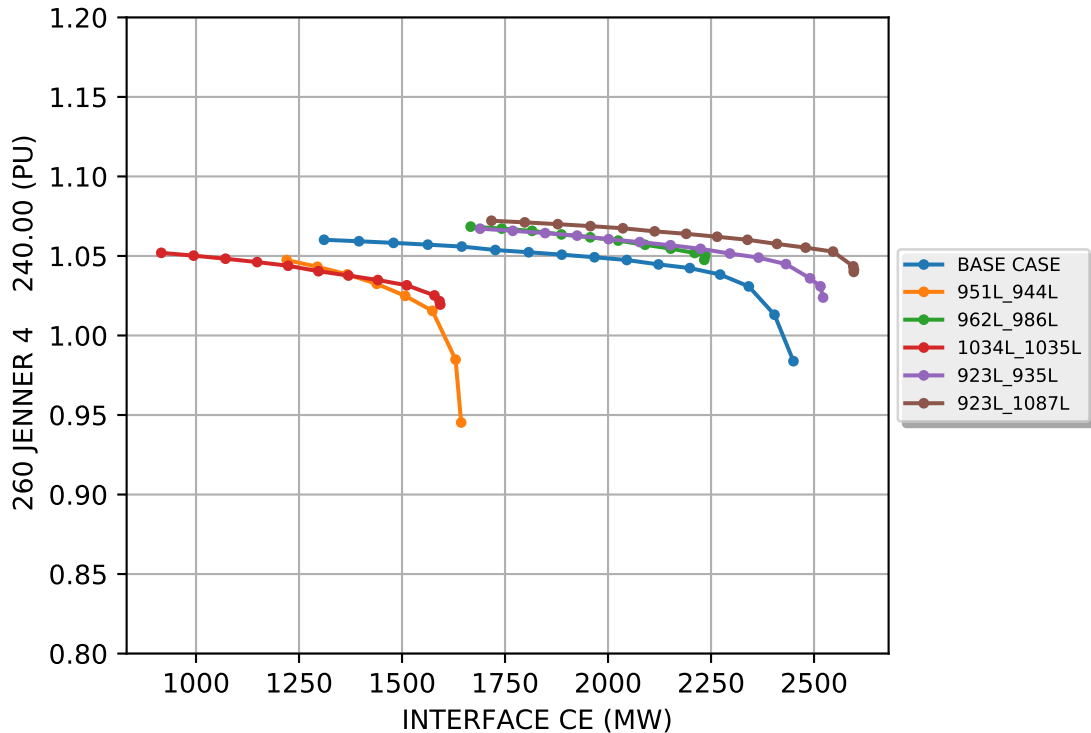


Figure: E-6-241

Case: M8, Option: BOTH2

Min Voltage: 0.96 PU, Min Margin: 34.2%

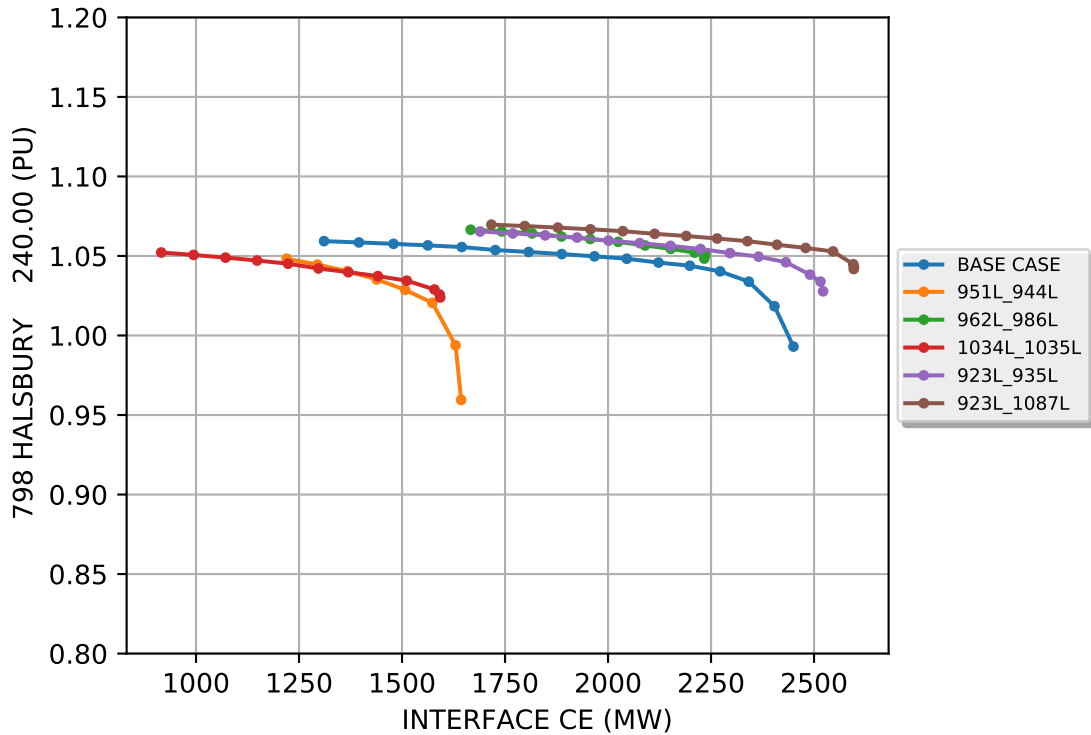


Figure: E-6-242

Case: M8, Option: BOTH2

Min Voltage: 0.87 PU, Min Margin: 34.2%

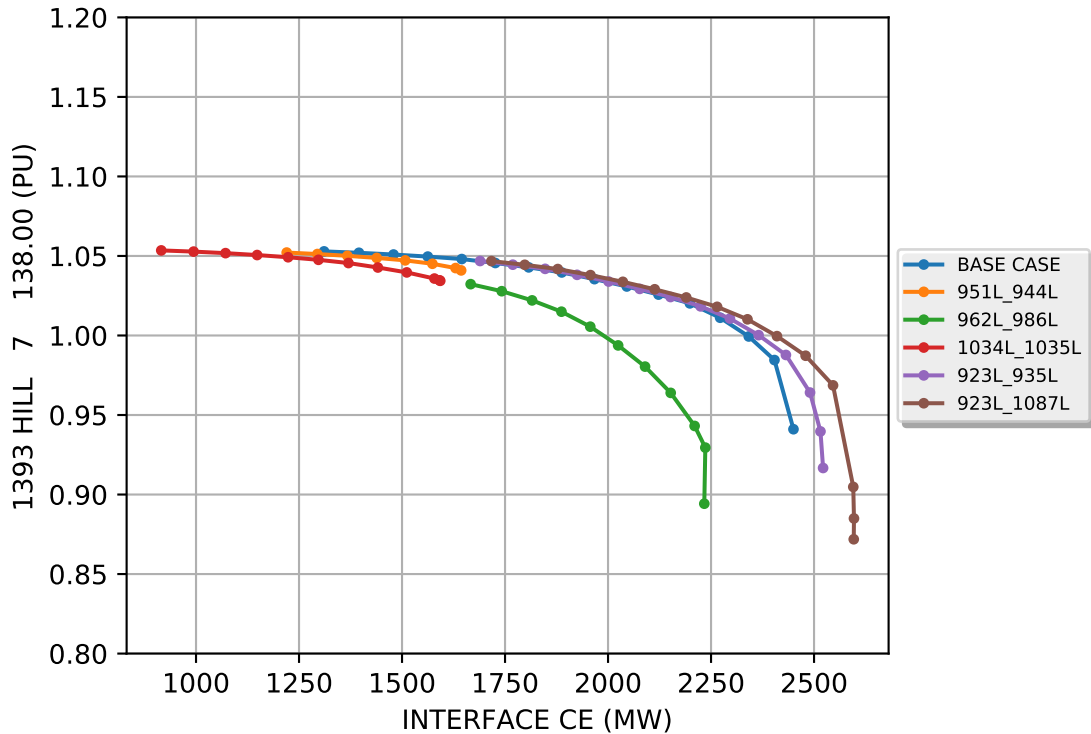


Figure: E-6-243

Case: M9, Option: BOTH2

Min Voltage: 0.87 PU, Min Margin: 29.9%

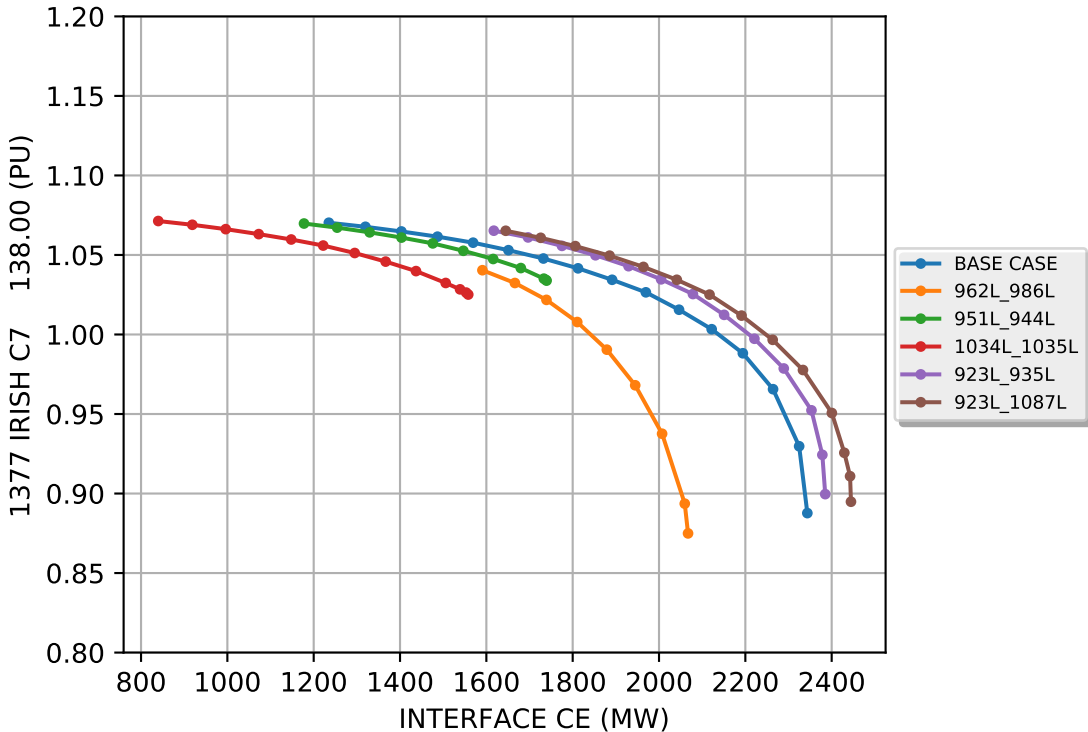


Figure: E-6-244

Case: M9, Option: BOTH2

Min Voltage: 0.83 PU, Min Margin: 29.9%

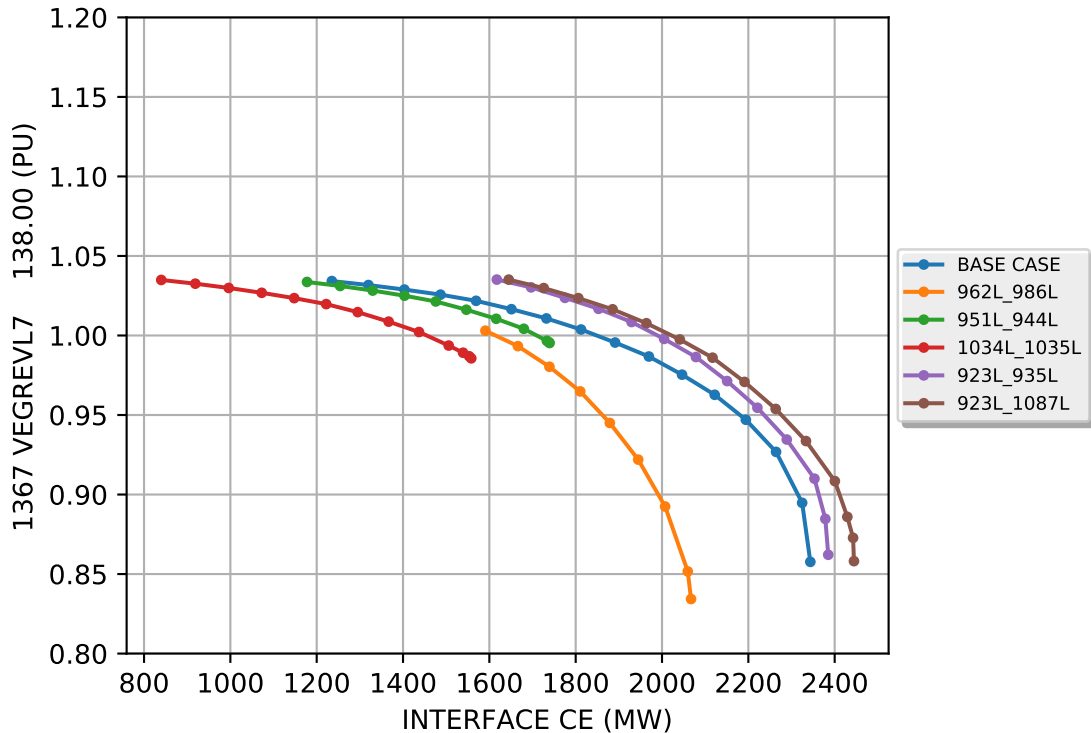


Figure: E-6-245

Case: M9, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 29.9%

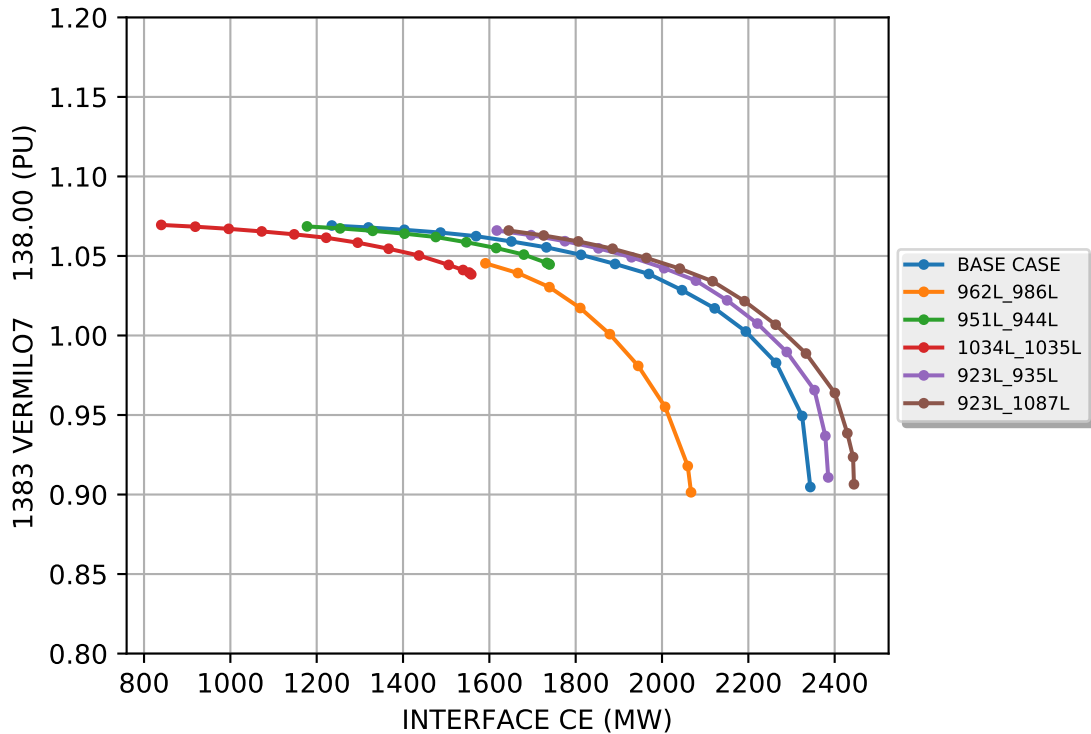


Figure: E-6-246

Case: M9, Option: BOTH2

Min Voltage: 0.85 PU, Min Margin: 29.9%

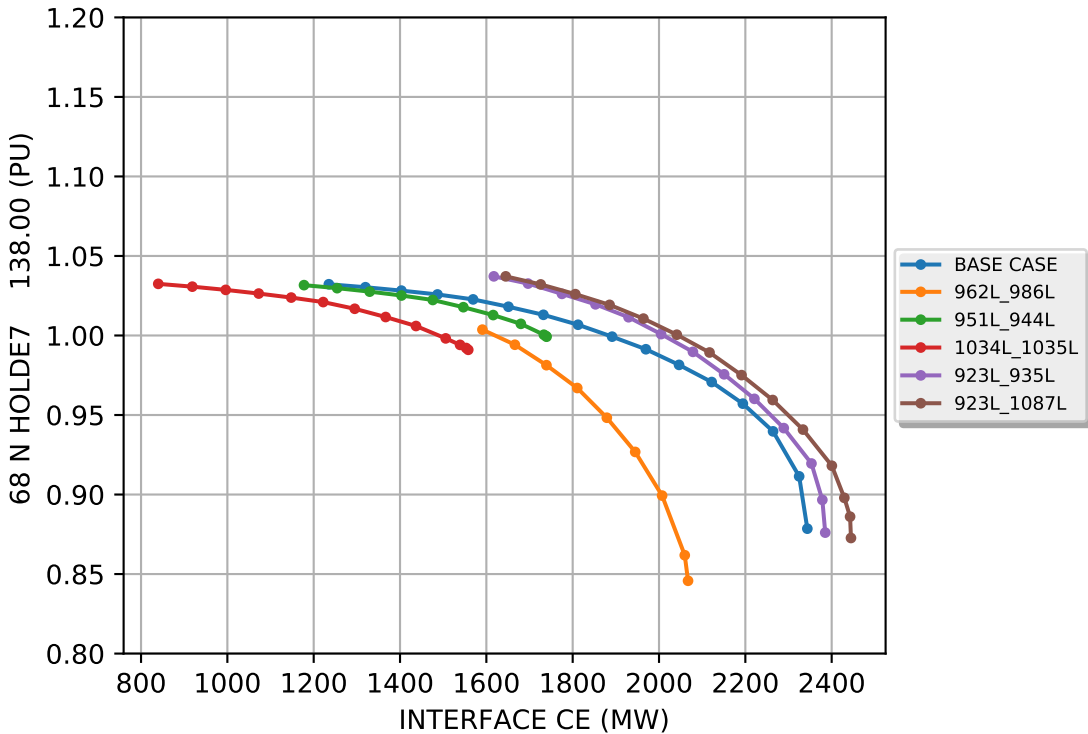


Figure: E-6-247

Case: M9, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 29.9%

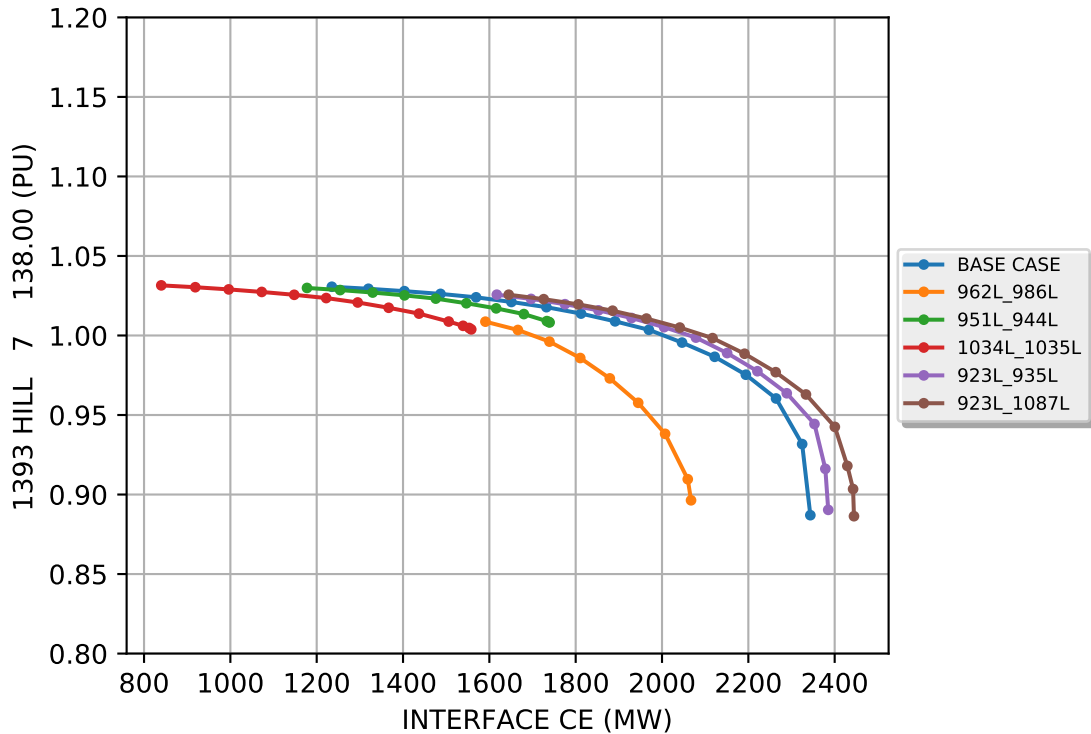


Figure: E-6-248

Case: M9, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 29.9%

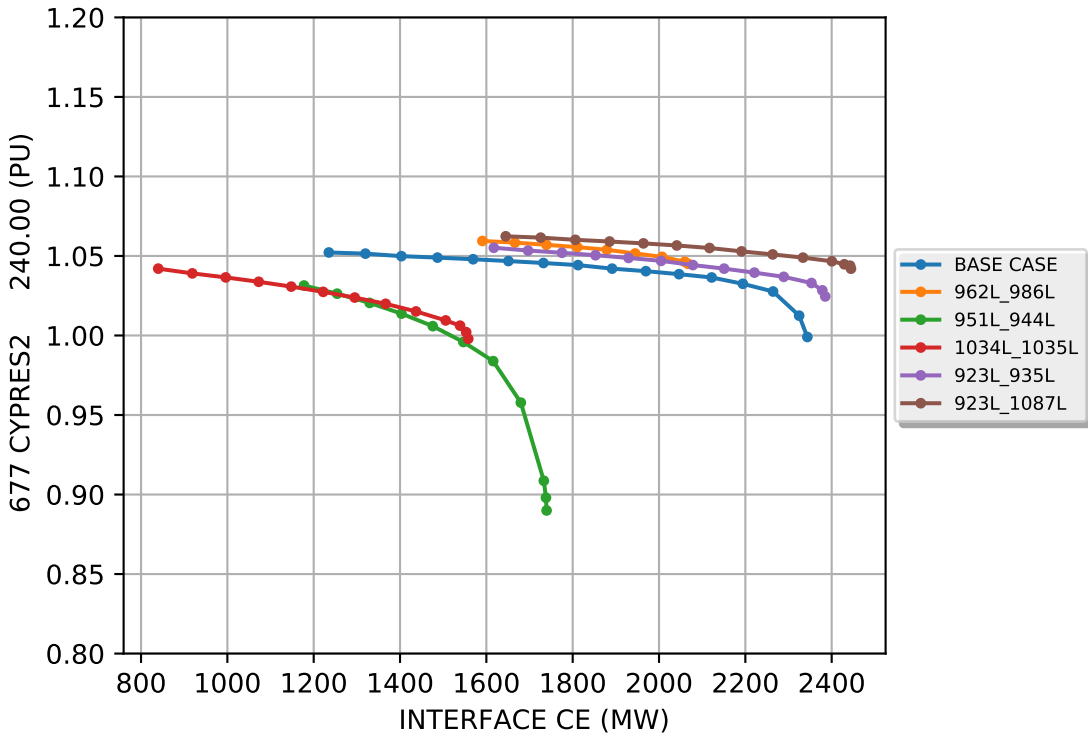


Figure: E-6-249

Case: M9, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 29.9%

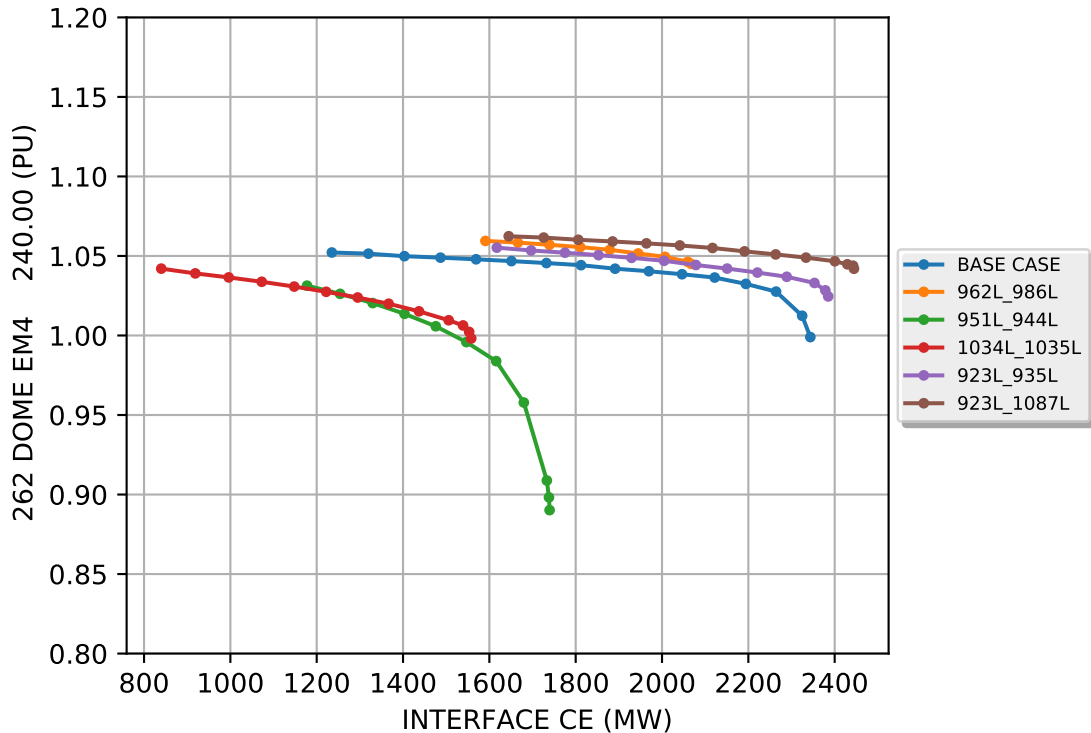


Figure: E-6-250

Case: M9, Option: BOTH2

Min Voltage: 0.94 PU, Min Margin: 29.9%

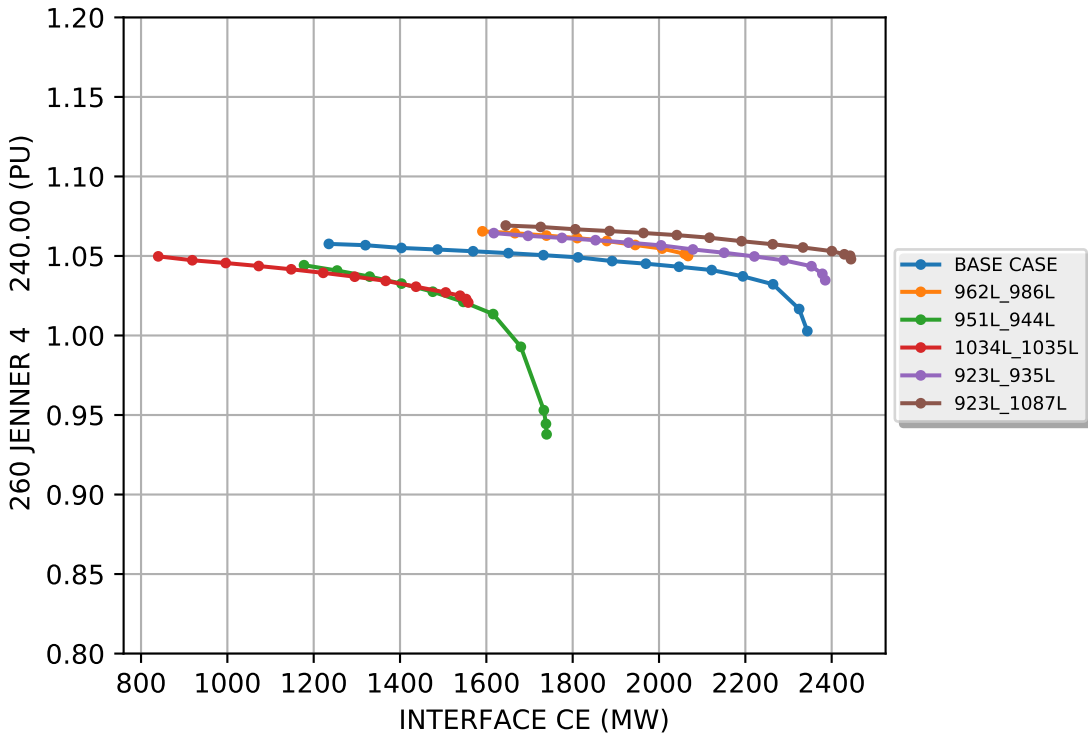


Figure: E-6-251

Case: M9, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 29.9%

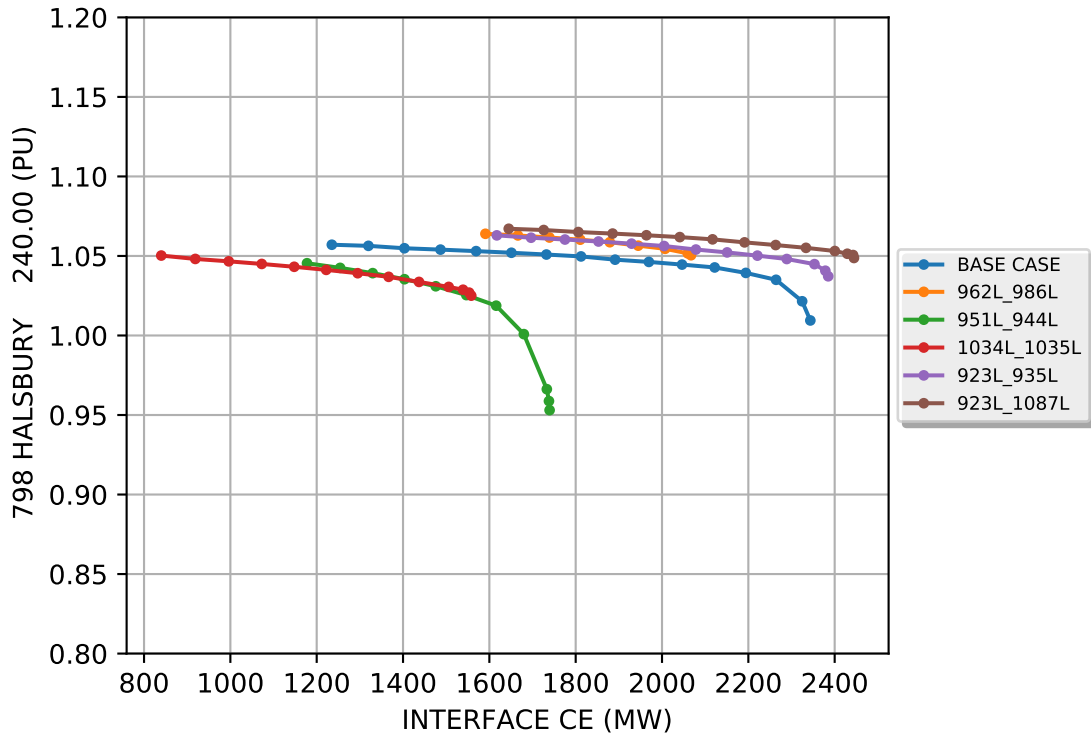


Figure: E-6-252

Case: M9, Option: BOTH2

Min Voltage: 0.98 PU, Min Margin: 29.9%

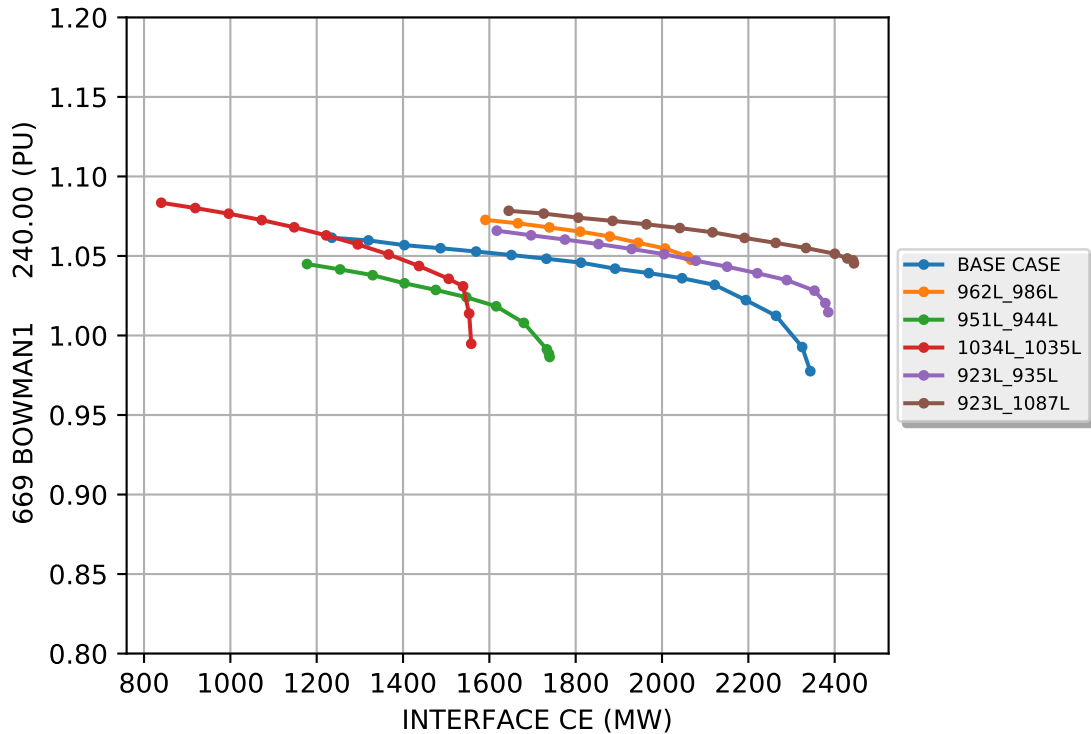


Figure: E-6-253

Case: M7, Option: BOTH2

Min Voltage: 0.90 PU, Min Margin: 65.4%

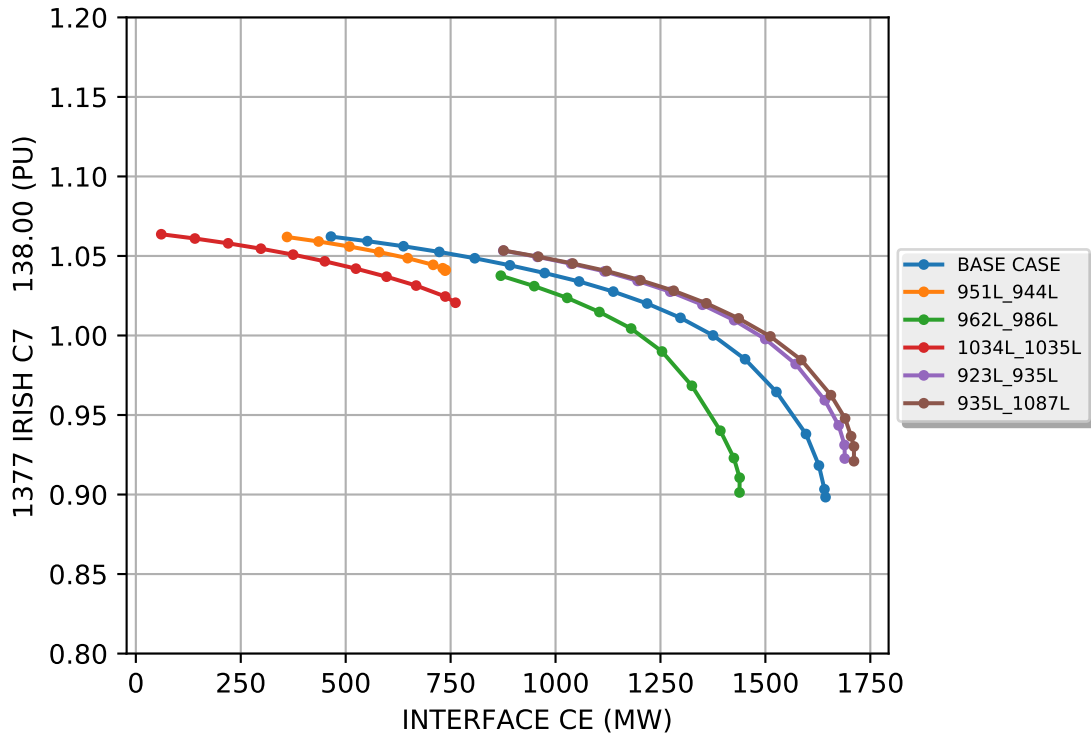


Figure: E-6-254

Case: M7, Option: BOTH2

Min Voltage: 0.86 PU, Min Margin: 65.4%

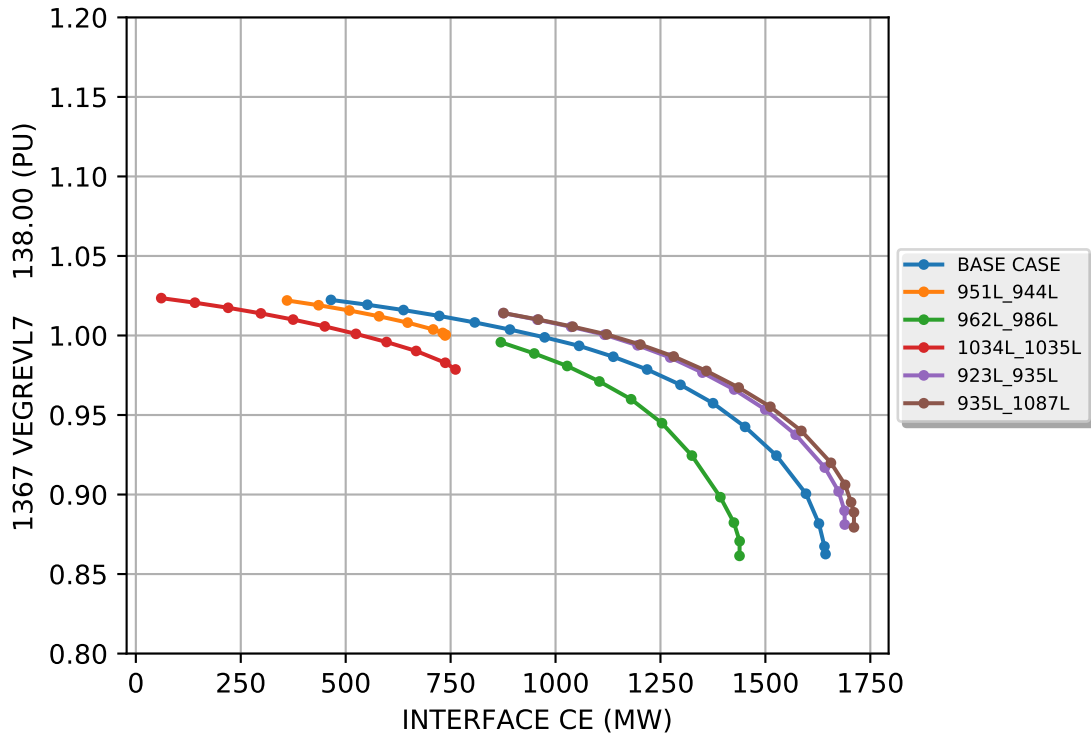


Figure: E-6-255

Case: M7, Option: BOTH2

Min Voltage: 0.88 PU, Min Margin: 65.4%

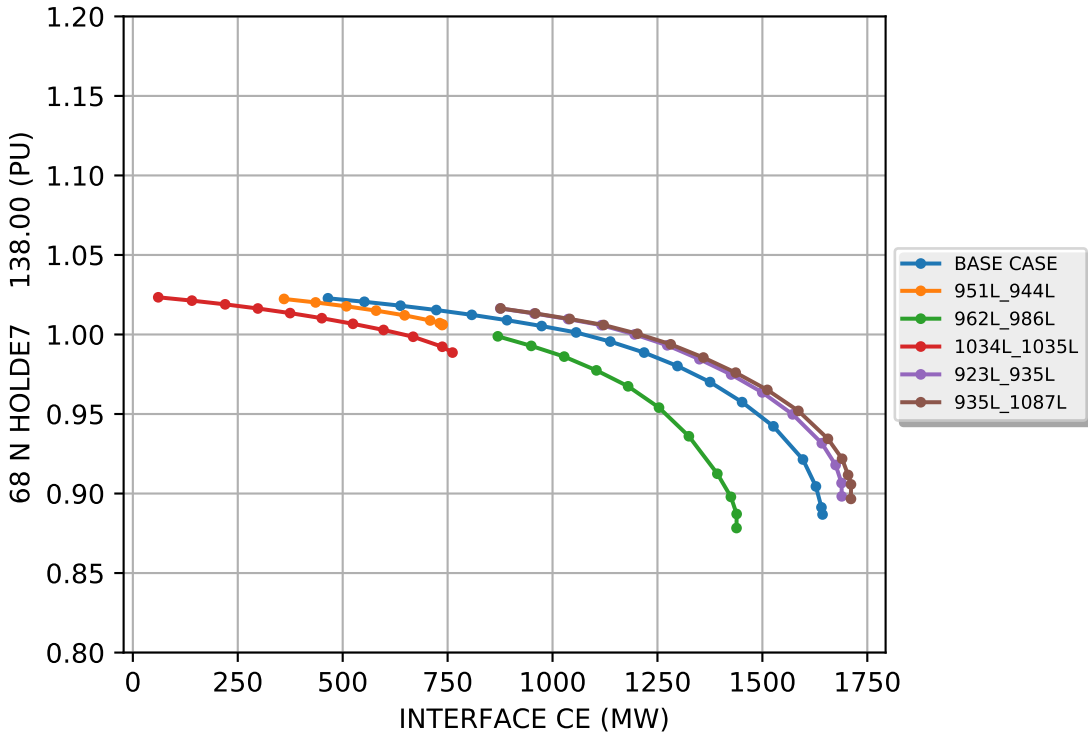


Figure: E-6-256

Case: M7, Option: BOTH2

Min Voltage: 0.94 PU, Min Margin: 65.4%

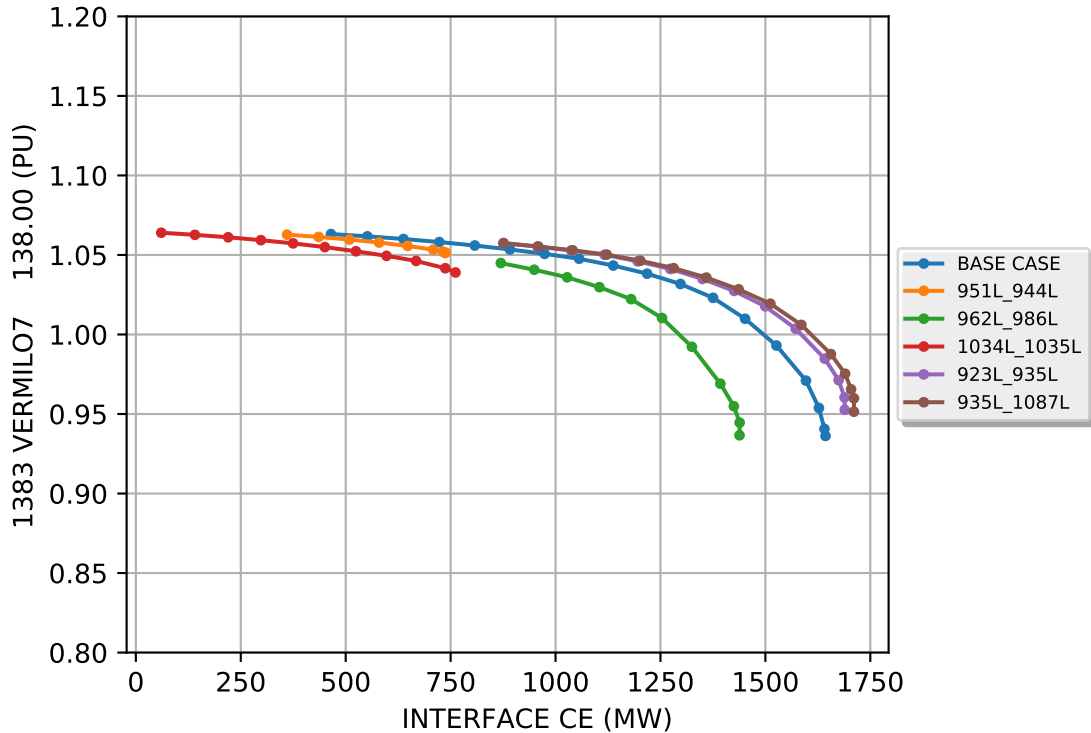


Figure: E-6-257

Case: M7, Option: BOTH2

Min Voltage: 0.94 PU, Min Margin: 65.4%

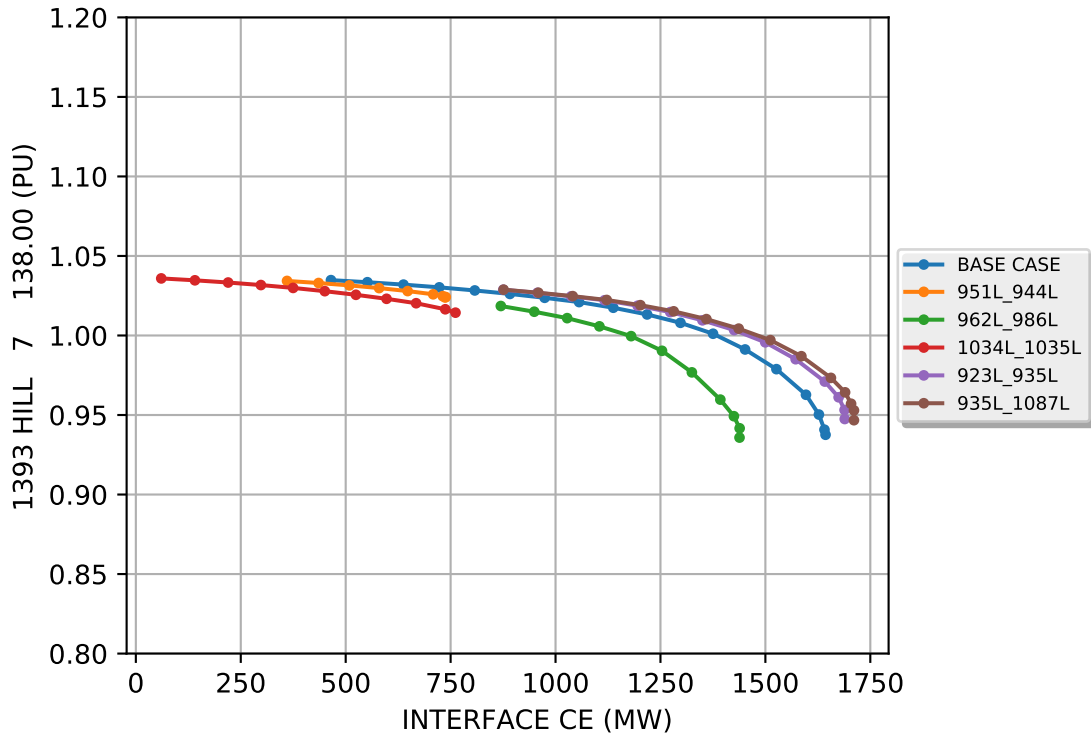


Figure: E-6-258

Case: M7, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 65.4%

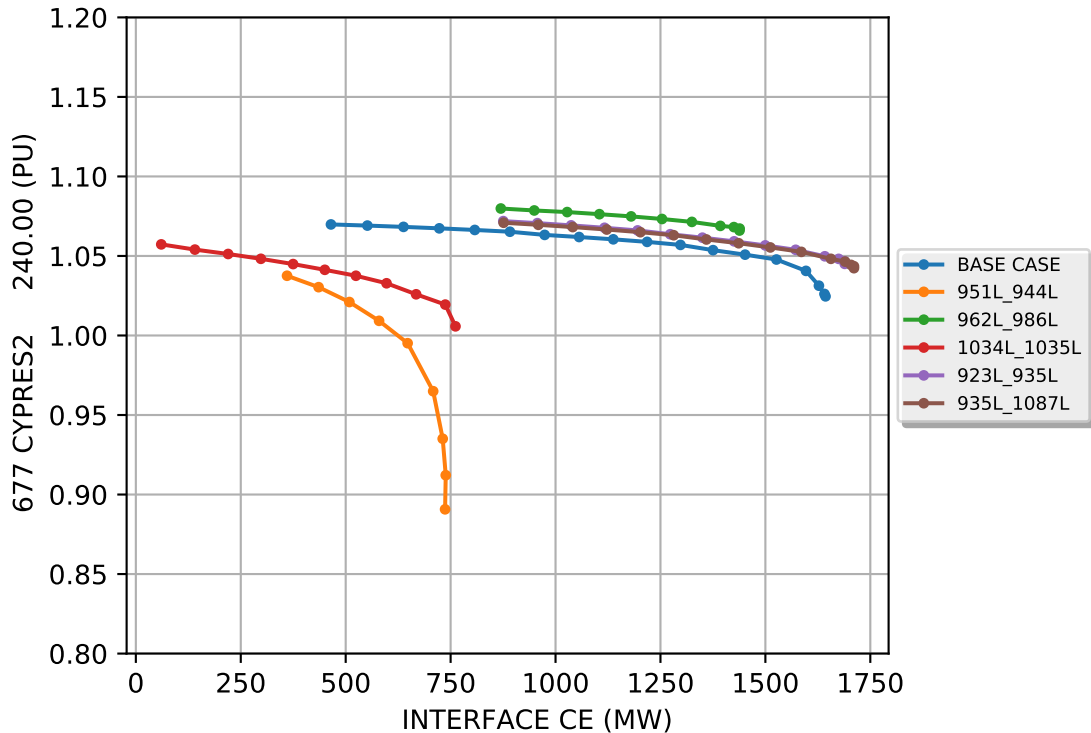


Figure: E-6-259

Case: M7, Option: BOTH2

Min Voltage: 0.89 PU, Min Margin: 65.4%

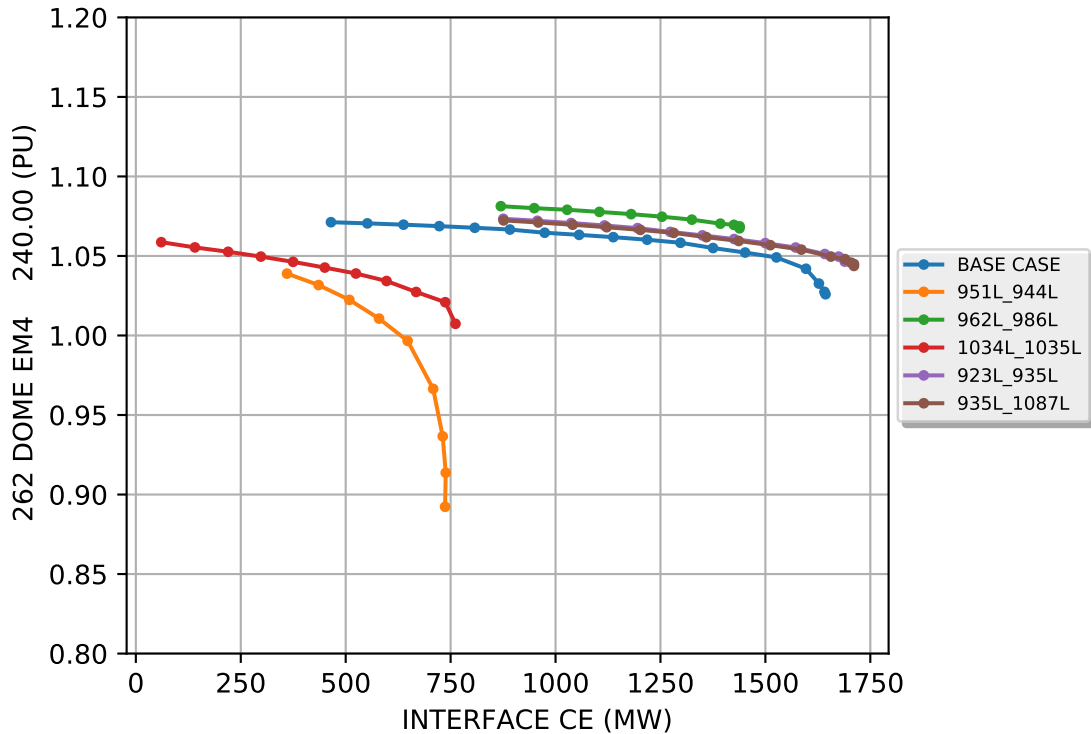


Figure: E-6-260

Case: M7, Option: BOTH2

Min Voltage: 0.94 PU, Min Margin: 65.4%

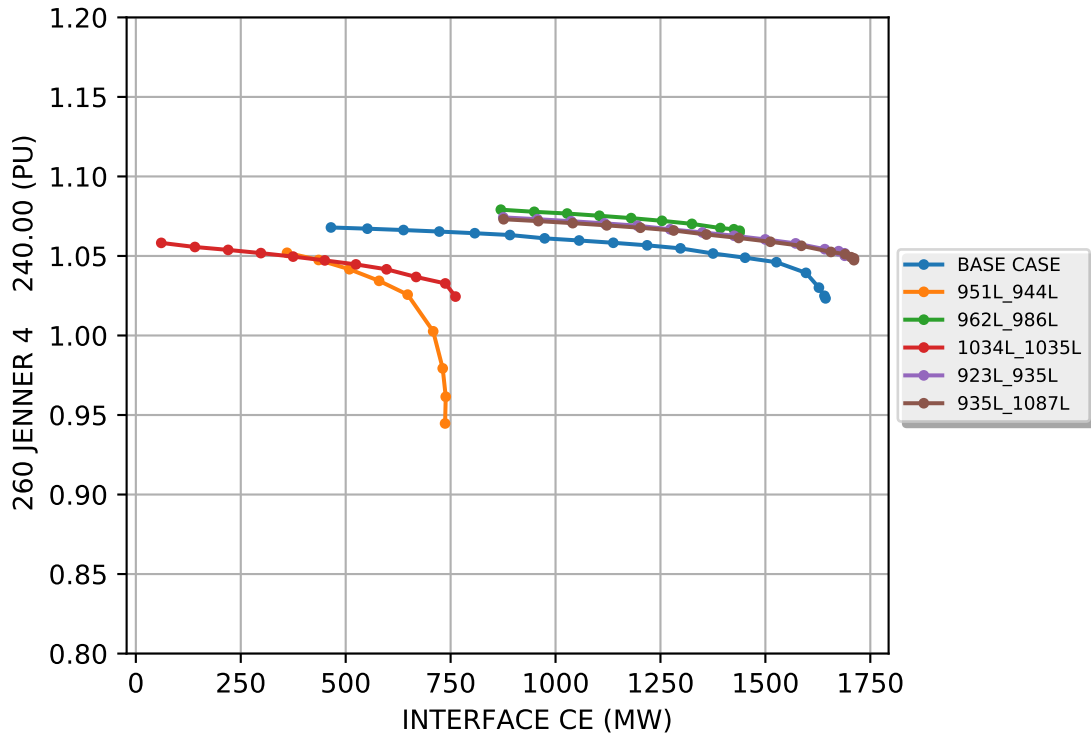


Figure: E-6-261

Case: M7, Option: BOTH2

Min Voltage: 0.96 PU, Min Margin: 65.4%

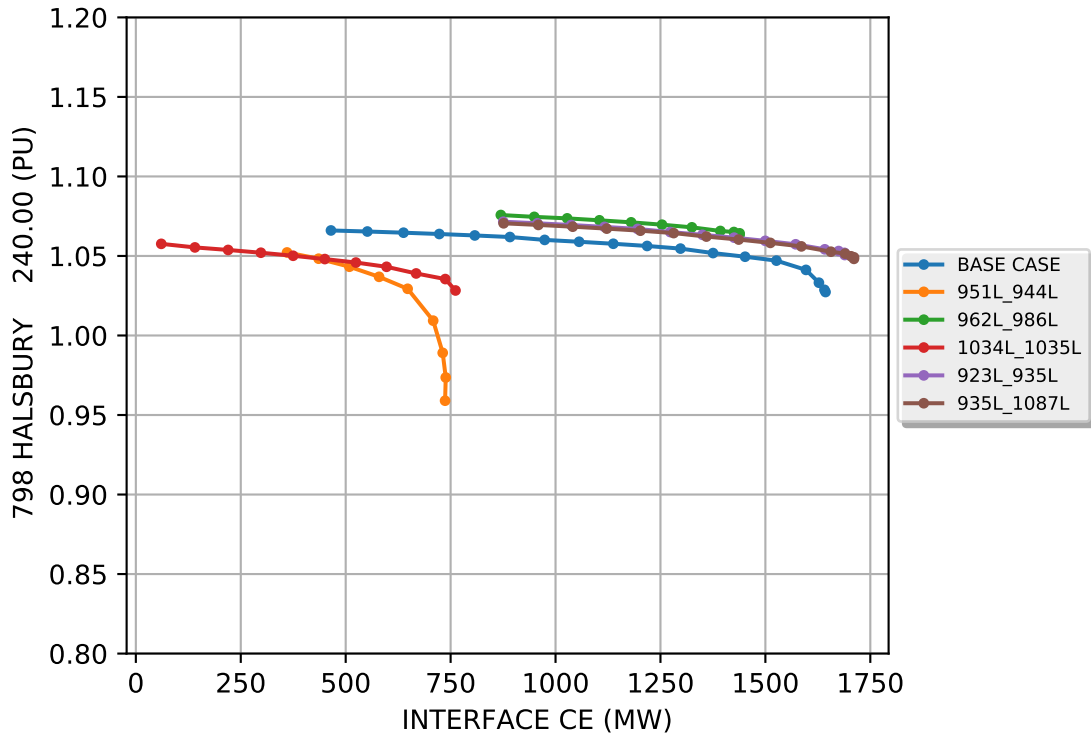


Figure: E-6-262

Case: M7, Option: BOTH2

Min Voltage: 0.98 PU, Min Margin: 65.4%

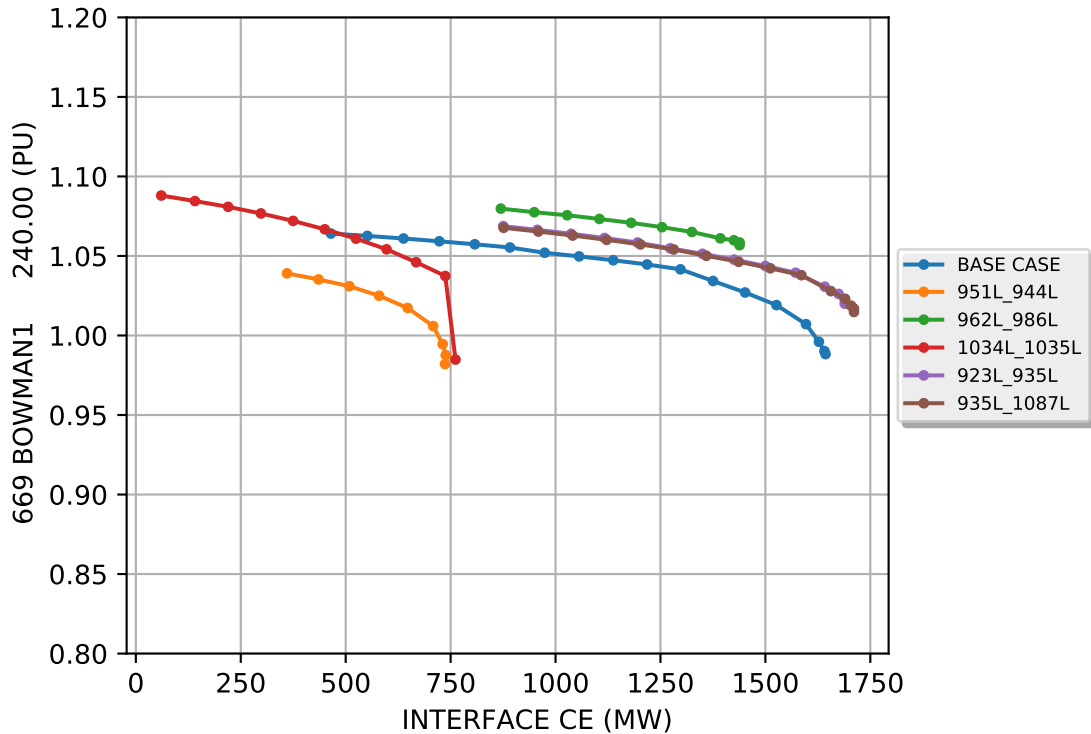
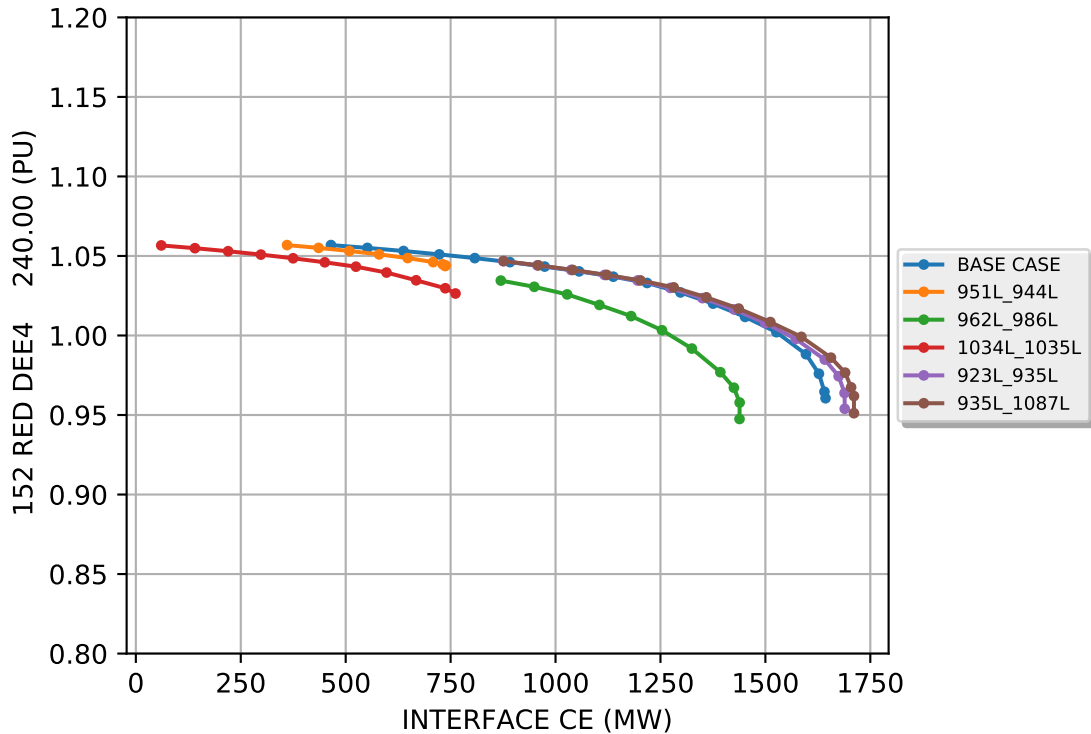


Figure: E-6-263

Case: M7, Option: BOTH2

Min Voltage: 0.95 PU, Min Margin: 65.4%



Worst Case Summaries:

Min Voltage: 0.77 PU, Page: 225

Min Margin: 21.5%, Page: 211

Min Margin Maximum 0.9 PU Voltage: 15.4%, Page: 211

Voltages above 1.1 PU in pages: